

# UNDERGRADUATE/GRADUATE CATALOG AUGUST 2010



# THE UNIVERSITY OF NEW ORLEANS

GREAT CITY, GREAT UNIVERSITY

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# University Calendar

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## FALL SEMESTER 2010

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### AUGUST 2010

- 16-27 CENTRALIZED ENROLLMENT SERVICES Recreation and Fitness Center gym.
- 16 Academic appointments begin.  
Express Provisional Admission begins.
- 20 Late registration begins.
- 21 Saturday classes begin.
- 23 Regular classes begin.
- 27 Final date to add courses, change sections, or change from audit to credit. Late registration ends at 4:30 p.m.
- 30 WebSTAR active for dropping courses.

### SEPTEMBER 2010

- 6 Labor Day Holiday.
- 10 Final date to drop course(s) or resign and not have course(s) recorded.
- 11 through November 8 - An automatic "W" will be recorded for all courses dropped.
- 13 Final date to change from credit to audit.

### OCTOBER 2010

- 1 Extended Payment Plan Option (EPPO) final payment deadline (4:30 P.M.).
- 5 Grad Fair.
- 7, 8 Mid-semester break.
- 11-15 Mid-semester examinations.

### NOVEMBER 2010

- 1 2011 Spring REGISTRATION begins.  
Fee payment by web, mail, phone, or in person at the Bursar's Office begins.
- 8 Final day to drop courses or resign from the University.
- 15 Application for Admission deadline for 2011 Spring Semester without paying late fee.

- 20 Last day of Saturday classes.
- 25-28 Thanksgiving holiday.
- 30 Student Financial Aid priority processing date for filing FAFSA (Spring 2011)

### DECEMBER 2010

- 3 Last day of classes.
- 4-10 Final examinations.
- 16 Final grades available on WebSTAR.
- 17 Academic appointments end.  
COMMENCEMENT at 7:00 p.m.

## SPRING SEMESTER 2011

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### JANUARY 2011

- 10 Academic appointments begin.  
Express Provisional Admission begins.
- 14 LATE REGISTRATION begins.
- 15 Saturday classes begin.
- 17 Martin Luther King Holiday - University Closed.
- 18-21, 24 CENTRALIZED ENROLLMENT SERVICES (Registration, Bursar and Financial Aid) in TBA.
- 18 Regular classes begin.
- 24 Final date to add courses, change sections, or change from audit to credit. Late registration ends at 4:30 p.m.
- 25 WebSTAR active for dropping courses.
- 28 Last day for textbook refunds.

### FEBRUARY 2011

- 4 Final date to drop course(s) or resign and not have course(s) recorded.  
From February 5 through April 7 an automatic "W" will be recorded for all courses dropped.
- 7 Final date to change from credit to audit.

## MARCH 2011

- 1 Extended Payment Plan Option (EPP0) remaining balance due.
- 6-11 Mardi Gras Holidays/ Spring Break -no classes.
- 8 University Closed-Mardi Gras Holiday.
- 14-18 Mid-semester examinations.

## APRIL 2011

- 7 Final date to drop course(s) or resign from the University.
- 8 REGISTRATION for 2011 Summer Session and 2010 Fall Semester begins.
- 22 University Closed - Holiday.
- 30 Last day of Saturday classes.

## MAY 2011

- 6 Last day of classes.
- 7-13 Final examinations.
- 9 Intersession 2011 registration. (See web for course listings)
- 18 Final grades available on Web-STAR.
- 19 Intersession 2011 classes begin.  
Late Registration for Intersession 2011.
- 21 Academic appointment ends.
- 20, 21 Commencement (time and location to be announced).
- 27 Final date to drop course(s) or resign from the University for the Intersession.
- 30 Intersession 2011 classes end.
- 31 Intersession 2011 final examinations.

## SUMMER SESSION 2011

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### MAY 2011

- 30 Academic appointments begin.

### JUNE 2011

- 1 Late Registration.
- 2 Classes begin.
- 3 Registration ends for Summer 2011 Session at 4:30 p.m. Registration remains open for Fall 2011 semester and Mini Session II.

### JULY 2011

- 4 Independence Day
- 11 Final day for dropping classes or resigning from the University.
- 21 Last day of classes.
- 22 Reading Day
- 23 English Group Exams
- 25-26 Final Examinations
- 28 Academic appointments end.

## FALL SEMESTER 2011

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### AUGUST 2011

- 15 Academic appointments begin.
- 15-26 Walk-in fee payment.
- 18 Late registration begins.
- 20 Saturday classes begin.
- 22 Regular classes begin.
- 26 Final date to add courses, change sections, or change from audit to credit. Late registration ends at 4:30 p.m.

### SEPTEMBER 2011

- 5 Labor Day Holiday.

### OCTOBER 2011

- 1 Extended Payment Plan Option (EPP0) final payment deadline (4:30 P.M.).
- 6, 7 Mid-semester break.
- 11-14 Mid-semester examinations.

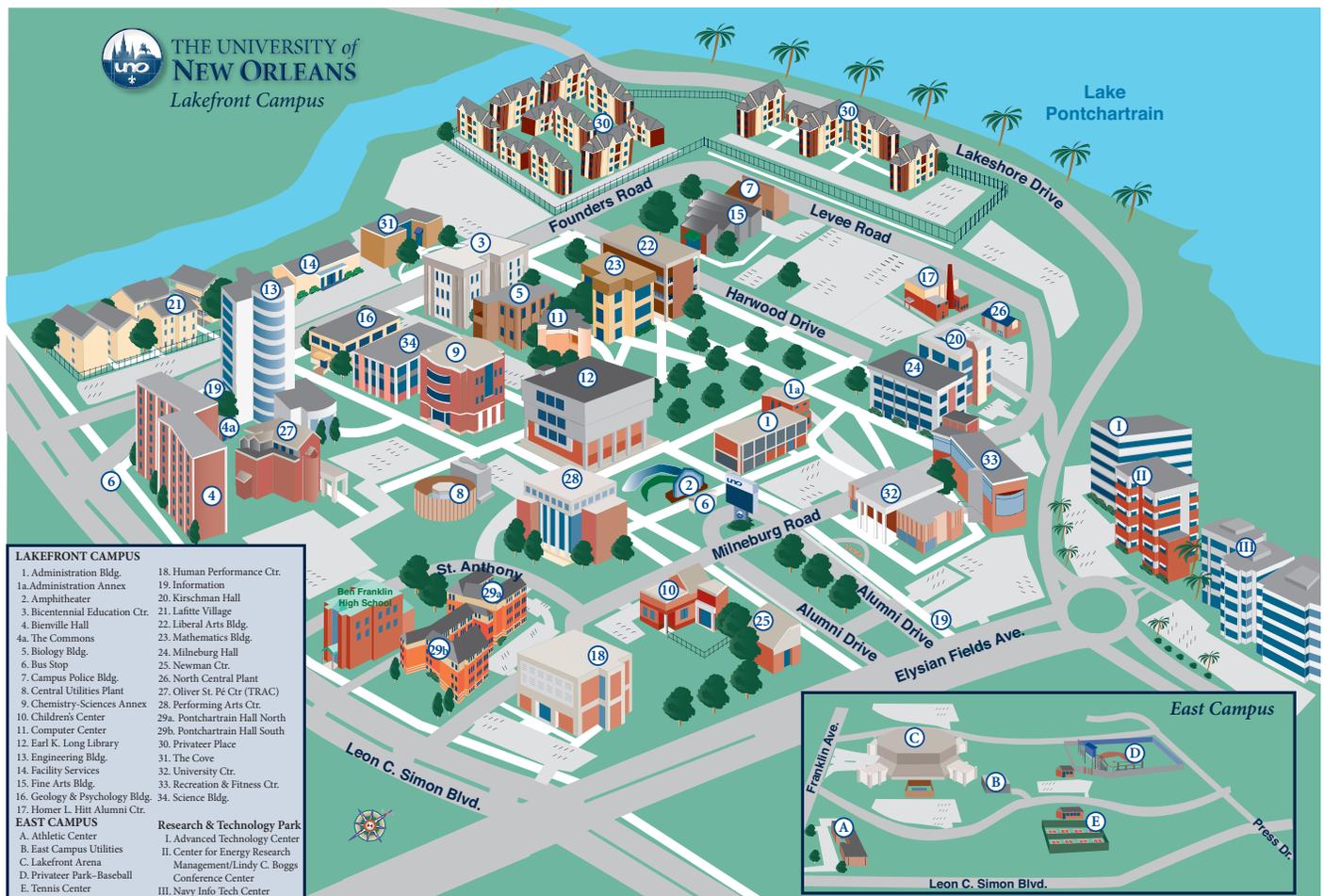
### NOVEMBER 2011

- 7 Final day to drop courses or resigning from the University.
- 8 2011 Spring REGISTRATION begins.
- 19 Last day of Saturday classes.
- 24-27 Thanksgiving holiday.

### DECEMBER 2011

- 2 Last day of classes.
- 3-9 Final examinations.
- 15 Final grades available on WebSTAR.
- 17 COMMENCEMENT (Lakefront Arena).  
Academic appointments end.

# Lakefront Campus Map



# The University

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The University of New Orleans (UNO), the urban research university of the State of Louisiana, was established by the Louisiana Legislature in 1956 to bring public-supported higher education to the state's largest urban community. The Board of Supervisors of the Louisiana State University acquired a 195-acre site on the southern shore of Lake Pontchartrain within the City of New Orleans. A number of the buildings remaining on the property from its prior use as a United States Navy air station were renovated for academic purposes during the winter and spring of 1958. In September 1958, Louisiana State University in New Orleans, which was renamed the University of New Orleans in 1974, opened to nearly 1,500 freshman students, more than twice the number anticipated. Only a freshman curriculum was offered the first year. In succeeding years, additional levels of curricula were developed and offered so that by 1962 the University was operating as a full four-year, degree-granting institution. Programs of study are now offered through five academic undergraduate colleges: Business Administration, Education and Human Development, Engineering, Liberal Arts and Sciences—in addition to the Graduate School. The University of New Orleans is committed to continual improvement through a vibrant strategic planning process. The current version of the strategic plan can be found at <http://upcom.uno.edu/docs/StrategicPlan2007-2010.pdf>.

As a member of the Louisiana State University System, UNO has grown to become a Southern Regional Education Board Four-Year II research university that provides essential support for the educational, economic, cultural, and social well-being of the culturally rich and diverse New Orleans metropolitan area. Located in an international city, the university serves as an important link between Louisiana

and both the nation and the world. The university strategically serves the needs of the region through its undergraduate and graduate programs and through mutually beneficial collaborations with public and private bodies whose missions and goals are consistent with and supportive of UNO's teaching, scholarly, and community service objectives. The university's technological and cultural alliances connect the institution, its faculty, and its students to the community. Joint projects with public schools, governments, foundations, businesses, and civic groups enrich opportunities for learning and community growth. Research and graduate programs focus on fields of study in which UNO is nationally competitive or responding to specific state or regional needs.

UNO is a selective admissions university\* serving approximately 12,500 students nearly three-fourths of whom are undergraduates and a fourth are graduate students in both Master's and Doctoral programs. UNO offers more than one hundred degree programs to a diverse population comprised of students from a broad range of backgrounds, representing nearly every state in the U.S. and over 100 countries across the globe. The University serves students of traditional age and also older students whose experiences and motivation prepare them for programs of study leading to degrees as well as to professional and personal advancement.

\*In addition to being classified as a Southern Regional Education Board Four-Year II institution, UNO is a Carnegie Doctoral/Research Intensive University and a Southern Association of Colleges and Schools Level VI institution.

# Academic Programs

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UNO offers the following degrees and major programs:

## Bachelor of Arts

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Major	College
Anthropology	Liberal Arts
Art (Art History and Studio Art)	Liberal Arts
Elementary and Secondary Music Education	Education
English	Liberal Arts
Film, Theatre, Communication Arts	Liberal Arts
French	Liberal Arts
Geography	Liberal Arts
History	Liberal Arts
International Studies	Liberal Arts
Music	Liberal Arts
Philosophy	Liberal Arts
Political Science	Liberal Arts
Secondary English Education	Education
Secondary Social Science Education	Education
Sociology	Liberal Arts
Spanish	Liberal Arts

## Bachelor of Interdisciplinary Studies

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## Bachelor of Science

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Major	College
Accounting	Business Administration
Biological Sciences	Sciences
Business Administration	Business Administration
Business Administration (Computer Science Option)	Business Administration
Chemistry	Sciences
Civil Engineering	Engineering
Computer Science	Sciences
Early Childhood Education	Education
Earth and Environmental Sciences	Sciences
Electrical Engineering	Engineering
Elementary Education	Education and Human Development
Entrepreneurship	Business Administration

Finance	Business Administration
Hotel, Restaurant and Tourism Administration	Business Administration
Management	Business Administration
Marketing	Business Administration
Mathematics	Sciences
Mechanical Engineering	Engineering
Naval Architecture and Marine Engineering	Engineering
Physics	Sciences
Psychology	Sciences
Secondary Biology Education	Education and Human Development
Secondary Chemistry Education	Education and Human Development
Secondary Earth Science Education	Education and Human Development
Secondary Math Education	Education and Human Development
Urban Studies and Planning	Liberal Arts

## Master of Arts

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Arts Administration  
English  
History  
Political Science  
Romance Languages  
Sociology

## Master of Arts in Teaching

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## Master of Business Administration

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## Master of Education

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Counselor Education  
Curriculum and Instruction  
Educational Leadership  
Special Education

## Master of Fine Arts

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Film, Theater and Communication Arts  
Fine Arts

## Master of Music in Music

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## Master of Public Administration

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## Master of Science

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Accounting  
Accounting (Taxation Option)  
Applied Physics  
Biological Sciences  
Chemistry  
Computer Science  
Engineering Science  
Engineering Management  
Environmental Engineering  
Earth and Environmental Sciences  
Financial Economics  
Health Care Management  
Hospitality and Tourism  
Mathematics  
Psychology  
Urban Studies

## Master of Urban and Regional Planning

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## Doctor of Philosophy

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Applied Biopsychology  
Applied Developmental Psychology  
Chemistry  
Conservation Biology  
Counselor Education  
Curriculum and Instruction  
Educational Administration  
Engineering and Applied Science  
Financial Economics  
Political Science  
Special Education  
Urban Studies

## Pre-professional Programs

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UNO has programs designed to provide college training for those students interested in gaining admission to one of the professional schools. Pre-professional programs are offered in the following areas:

Cardiopulmonary Science  
Dental Hygiene  
Dentistry  
Medical Technology  
Medicine  
Nursing  
Occupational Therapy  
Ophthalmic Medical Technology  
Pharmacy  
Physical Therapy  
Physician's Assistant  
Rehabilitation Counseling  
Veterinary Medicine

## Accreditation

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The University of New Orleans is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097, telephone number 404-679-4501) to award bachelor's, master's, and doctoral degrees. The Commission on Colleges of the Southern Association of Colleges and Schools is the recognized regional accrediting body in the eleven U.S. Southern states (Alabama, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Texas, and Virginia) for those institutions of higher education that award associate, baccalaureate, master's or doctoral degrees. The Commission on Colleges is the representative body of the College Delegate Assembly and is charged with carrying out the accreditation process.

# Administrators

## Board of Supervisors

	Present Service Expires
Mr. R. Blake Chatelain, Alexandria, <i>Chairman</i> .....	June 1, 2014
Mr. James W. Moore Jr., Monroe, <i>Chairman-Elect</i> .....	June 1, 2014
Mr. Ronald R. Anderson, Baton Rouge.....	June 1, 2014
Dr. Jack A. Andonie, Metairie .....	June 1, 2012
Mr. Garret "Hank" Danos, Larose.....	June 1, 2016
Ms. Ann D. Duplessis, New Orleans.....	June 1, 2016
Mr. Anthony G. "Tony" Falterman, Napoleonville .....	June 1, 2012
Dr. John George, Shreveport .....	June 1, 2012
Mr. Stanley J. Jacobs, New Orleans .....	June 1, 2012
Mr. Alvin Kimble, Baton Rouge.....	June 1, 2012
Mr. Raymond J. Lasseigne, Bossier City .....	June 1, 2016
Mrs. Laura A. Leach, Lake Charles .....	June 1, 2012
Ms. Ali Lieberman, <i>Student Member</i> .....	June 1, 2011
Mr. Ben W. Mount, Lake Charles.....	June 1, 2016
Mr. Roderick K. West, New Orleans.....	June 1, 2012
Mr. Robert "Bobby" Yarborough, Baton Rouge.....	June 1, 2016

## Executives of the LSU System

Dr. John V Lombardi.....	President of the LSU System
Dr. Robert H. Rasmussen .....	Assistant Vice President for System Relations
Mr. Joseph Corso.....	Assistant Vice President for Advancement
Dr. Charles Zewe.....	Vice President for Communication and External Affairs
Mr. John Antolik .....	Assistant Vice President and Chief Financial Officer
Mr. James Howell.....	Assistant Vice President and University Architect
Dr. Carolyn Hargrave .....	Vice President for Academic Affairs and Technology Transfer, Chief of Staff
Dr. Mike Gargano.....	Vice President for Student and Academic Support Services
Dr. Fred Cerise.....	Vice President for Health Affairs and Medical Education
Ms. Doreen Brasseaux.....	Assistant Vice President for Public Policy
Dr. Roxane Townsend.....	Assistant Vice President for Health Systems
Mr. Raymond Lamonica .....	General Counsel

## UNO Administrators

Chancellor .....	Timothy P. Ryan, Ph.D.
Assistant to the Chancellor and Chief of Staff .....	Elizabeth U. Lowry, M.B.A.
Marketing and Communications.....	Michael Rivault, M.B.A, M.Ed., <i>Chief Marketing Officer</i>
Institutional Research & Data Management.....	N. Rebecca Rutter, M.S.L.I.S., <i>Project Director</i>
Public Relations .....	Adam Norris, M.S., <i>Director</i>
WWNO/KTLN .....	Paul Maassen, M.B.A., <i>General Manager</i>
Compliance Officer .....	Michelle Montegut, M.B.A.
Continuing Professional Education .....	Aundrea Kloor, MURP, <i>Director</i>
Intercollegiate Athletics.....	Amy Champion, M.S., <i>Interim Director</i>
University Computing and Communications.....	James Burgard, B.A., <i>Assistant Vice Chancellor</i>
University Counsel.....	Patricia Adams, J.D.

## Academic and Student Affairs

Provost and Vice Chancellor of Academic and Student Affairs .....	Joe M. King, Ph.D.
Senior Associate Vice Chancellor for Academic Affairs.....	Merrill Lee Johnson, Ph.D.
Distance Education .....	Lindsey Graveline, M.B.A., <i>Coordinator</i>
Honors Program .....	Edward Johnson, Ph.D., <i>Director</i>
International Education .....	Alea Morelock Cot, M.A., <i>Assistant Vice Chancellor</i>
International Students and Scholars.....	Christiana Thomas, M.A., <i>Director</i>
Intensive English Language Program .....	Dana Criswell, M.A., <i>Director</i>
Admissions .....	Andy J. Benoit Jr, M.Ed., <i>Director</i>
Interdisciplinary Studies .....	Elaine Brooks, Ph.D., <i>Director</i>
Learning Resource Center.....	Susan Danielson, M.A., <i>Director</i>
Student Financial Aid .....	Emily London-Jones, M.A., <i>Director</i>
University Registrar .....	Kathleen Plante, M.A.
Testing Services .....	Michael J. McMurray, M.A., <i>Director</i>
Women's Center .....	Elizabeth Blankenship, M.A., <i>Director</i>
Graduate School.....	Scott Whittenburg, Ph.D., <i>Dean</i>
College of Business Administration .....	John A. Williams, Ph.D., <i>Interim Dean</i>
College of Education and Human Development .....	James Meza, Jr, Ph.D., <i>Dean</i>

College of Engineering..... Norma Jean Mattei, Ph.D., P.E., *Interim Dean*  
 College of Liberal Arts..... Susan Krantz, Ph.D., *Dean*  
 College of Sciences..... Steven Johnson, Ph.D., *Interim Dean*  
 Library Services..... Sharon Mader, Ed.D., *Dean*  
 Student Affairs..... Janice Lyn, Ph.D. *Dean*  
 Accounting and Advocacy ..... Amy King, M.A., *Associate Dean*  
 Counseling and Career  
 Services..... Barbara Mitchell, Ph.D., *Assistant Dean*  
 Student Health and  
 Disability Services..... Denise Perez, RN, *Assistant Dean*  
 Educational Talent Search Programs; Project Access,  
 Orleans-Jefferson and St. Tammany; Upward Bound  
 Program: Project PASS..... Brenda Brown, M.S., *Director*  
 Student Involvement  
 and Leadership..... Pamela Rault, Ph.D., *Associate Dean*  
 Student Support Services..... Nora Chapuis, M.A., *Director*  
 Upward Bound..... Lynette Bates, M.S., *Director*

### **Financial Services**

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Vice Chancellor for Financial Services, Comptroller  
 and Chief Financial Officer..... Linda K. Robison, M.S., C.P.A.  
 Assistant Vice Chancellor for Financial Services-  
 Budget, Finance & Systems..... Tiffany Gilmore-Soublet, M.B.A.  
 Assistant Vice Chancellor for Financial Services-  
 Accounting & Procurement..... Michael Dauenhauer, B.S.  
 Accounts Payable..... Dana Bird, B.S., *Manager*  
 Bursar..... Brett Cassell, M.B.A.  
 General Accounting and  
 Financial Reporting..... Debra Alvarez, B.S., *Manager*  
 Materials, Management and  
 Contracts Administrator..... Stephen F. Kolz, B.S., *Director*  
 Payroll..... Barbara Leverette, B.S., *Manager*  
 Purchasing..... Deborah Bridges, B.A., *Director*  
 Sponsored Programs  
 Accounting..... David P. Muscarello, B.S., C.P.A., *Director*  
 Human Resource Management... Ronald P. Boudreaux, B.S., *Director*

### **Governmental and Community Affairs**

---

Vice Chancellor for Governmental and  
 Community Affairs..... Rachel A. Kincaid, M.B.A  
 Alumni Affairs..... Pamela Meyer, B.A., *Director*

### **Research and Sponsored Programs**

---

Vice Chancellor for Research and Economic  
 Development ..... Scott Whittenburg, Ph.D.  
 Senior Associate Vice Chancellor..... George Harker , Ph.D.  
 Executive Director..... Carol T. Lunn, M.B.A.  
 Training Resources and  
 Assistive Technology ..... Kenneth R. Zangla, M.S., *Director*

### **Campus Services**

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Vice Chancellor for Campus Services..... Joel Chatelain, M.S.  
 Associate Vice Chancellor for Campus Services..... Vacant  
 Associate Vice Chancellor for Facility Services..... Vacant  
 Assistant Vice Chancellor for Public  
 Safety and Chief of Police ..... Thomas Harrington, M.A.  
 Lakefront Arena, Lindy Boggs Center and Campus  
 Booking..... Marco A. Perez, Jr., B.A., *General Manager*  
 Auxiliary Services..... Darlene R. Berggren, M.Ed., *Director*  
 Recreation, Intramural Sports and  
 University Center..... Margaret V. Royerre, M.S., *Director*  
 Environmental Health & Safety ..... David Richardson, B.S., *Director*

# Faculty

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## A

- Abdelguerfi, Mahdi** *Professor of Computer Science and Chair of the Department of Computer Science*; Ph.D., Wayne State University. Member, Graduate Faculty.
- Abdel-Rahman, Hesham** *Louisiana Real Estate Commission Professor Economics and Finance*; Ph.D., University of Pennsylvania. Member, Graduate Faculty.
- Adeola, Francis O.** *Professor of Sociology*; Ph.D., Mississippi State University. Member, Graduate Faculty.
- Akyuzlu, Kazim M. M.** *Professor of Mechanical Engineering*; Ph.D., University of Miami. Member, Graduate Faculty.
- Al-Ashhab, Samer** *Instructor in Mathematics*; Ph.D., North Carolina State University.
- Alexander, Angela M.** *Visiting Assistant Professor Educational Leadership, Counseling and Foundations*; Ph.D., University of New Orleans.
- Allen, H. David** *Professor of Sociology and Chair of the Department of Sociology*; Ph.D., Vanderbilt University. Member, Graduate Faculty.
- Alsamman, Abdul Rahman** *Associate Professor of Electrical Engineering*; Ph.D., University of Alabama. Member, Graduate Faculty.
- Alton, Lori** *Instructor in Mathematics*; M.S., Southern Illinois University.
- Anthony, Nicola Mary** *Associate Professor of Biological Sciences*; Ph.D., Cambridge University. Member, Graduate Faculty.
- Ardeneaux, Edward** *Instructor in English*; M.A., University of Georgia-Athens.
- Arnold, Allison** *Instructor in English*; M.A., University of Kentucky.
- Artigas, Maria Del Carmen** *Professor of Spanish*; Ph.D., University of Virginia. Member, Graduate Faculty.
- Atkins III, Victor B.** *Assistant Professor of Music*; M.M. Manhattan School of Music, Member, Graduate Faculty.
- Atkinson, Connie** *Associate Professor of History and Associate Director of the Midlo Center*; Ph.D., University of Liverpool. Member, Graduate Faculty.
- Augier, Denis M.** *Associate Professor of French*; Ph.D., University of Indiana, Bloomington. Member, Graduate Faculty.
- Austin, Patricia June** *Professor of Curriculum and Instruction*; Ph.D., University of New Orleans. Member, Graduate Faculty.
- Assa, Rasjeed M.A.** *Distinguished Professor of Electrical Engineering*; Ph.D., University of Nebraska-Lincoln. Member, Graduate Faculty.

## B

- Ballanco, Betty J.** *Instructor in Accounting and Director of the Business Administration Computer Installation*; M.S., University of New Orleans.
- Barbé, Donald E.** *Professor of Civil and Environmental Engineering*; Ph.D., Louisiana State University. Member, Graduate Faculty.
- Barnitz, John G.** *Research Professor of Curriculum and Instruction*; Ph.D., University of Illinois. Member, Graduate Faculty.
- Barnwell, Janet Elizabeth** *Instructor in English*; Ph.D., Louisiana State University.
- Barton, Fredrick P.** *Research Professor of English and Director of the Creative Writing Workshop*; M.F.A., University of Iowa. Member, Graduate Faculty.
- Bates, Randolph** *Associate Professor of English*; Ph.D., Tulane University. Member, Graduate Faculty.
- Baxter, Vern K.** *Professor of Sociology*; Ph.D., University of Wisconsin, Madison. Member, Graduate Faculty.
- Beabout, Brian R.** *Assistant Professor of Educational Leadership, Counseling and Foundations*; Ph.D., Pennsylvania State University.
- Beams, Joseph D.** *Associate Professor of Accounting*; Ph.D., Virginia Tech. Member, Graduate Faculty.
- Bedford, April Whatley** *Professor and Chair of the Department of Curriculum and Instruction*; Ph.D., Texas A&M University. Member, Graduate Faculty.
- Bell, Charles D.** *Assistant Professor of Biological Sciences*; Ph.D., Yale University. Member, Graduate Faculty.
- Benischek, Roger** *Instructor in Film, Theatre and Communication Arts and Director of the Nims Center*; M.S., California State College-Bakersfield.
- Beriss, David I.** *Associate Professor and Chair of the Department of Anthropology*; Ph.D., New York University. Member, Graduate Faculty.
- Birk, Lothar** *Associate Professor and Chair of the Department of Naval Architecture and Marine Engineering*; Ph.D., Tech University of Berlin.
- Bischof, Günter J.** *Professor of History and Director of CenterAustria*; Ph.D., Harvard University. Member, Graduate Faculty.
- Blakemore, Carroll F.** *Associate Professor of Mathematics*; Ph.D., University of Arkansas. Member, Graduate Faculty.

**Blancq, Charles C.** *Professor of Music*; Ph.D., Tulane University. Member, Graduate Faculty.

**Blankenship, Elizabeth Ruth** *Instructor in English and Director of the Women's Center*; M.A., University of New Orleans.

**Bole, Paul Thomas** *Associate Professor of Professional Practice of Education*; Ph.D., Northern Colorado University.

**Bonis, Marc** *Visiting Assistant Professor of Human Performance and Health Promotion and Educational Leadership, Counseling, Foundations*; Ph.D., University of New Orleans. Member, Graduate Faculty.

**Bordelon, Bridget Mary** *Assistant Professor of Hotel, Restaurant, Tourism Administration*; Ph.D., University of New Orleans.

**Bourderionnet, Olivier** *Assistant Professor of French*; Ph.D., Tulane University. Member, Graduate Faculty.

**Bourgeois, Edit J.** *Professor and Chair of the Department of Electrical Engineering*; Ph.D., Tulane University. Member, Graduate Faculty.

**Boyden, Joseph Anthony** *Writer in Residence, Department of English*; M.F.A., University of New Orleans.

**Breunlin, Rachel** *Instructor in Anthropology and Co-Director Neighborhood Story Project*; M.S.U.S., University of New Orleans.

**Brockmann, Erich N.** *Associate Professor of Management*; Ph.D., Florida State University. Member, Graduate Faculty.

**Brooks, Elaine S.** *Professor of Spanish and Academic Director for the Bachelor of Interdisciplinary Studies Degree Program*; Ph.D., University of California-Davis. Member, Graduate Faculty.

**Brooks, Jane S.** *Jean Brainard Boebel Chair in Historic Preservation, Professor and Chair of the Department of Planning and Urban Studies*; M.L.A., Harvard University. Member, Graduate Faculty.

**Brown, Nikki L.** *Assistant Professor of History*; Ph.D., Yale University. Member, Graduate Faculty.

**Bryant, Earle V.** *Professor of English*; Ph.D., Harvard University. Member, Graduate Faculty.

**Buege-Boyden, Amanda E.** *Writer in Residence, Department of English*; M.F.A., University of New Orleans.

**Burns, Michele A.** *Associate Professor of Finance*; Ph.D., University of Arkansas.

**Burrell, Brenda** *Associate Professor of Special Education and Habilitative Services*; Ph.D., University of New Orleans. Member, Graduate Faculty.

**Busowski, Peter A.** *Instructor in English*; M.A., Notre Dame Seminary School of Theology

## C

**Cambre, Belinda M.** *Assistant Professor of Educational Leadership, Counseling and Foundations*; Ph.D., Louisiana State University.

**Candy, Catherine M.** *Associate Professor of History*; Ph.D., Loyola University of Chicago. Member, Graduate Faculty.

**Cannon, Charles W.** *Instructor in English*; Ph.D., University of Illinois.

**Carson, Caroline** *Visiting Assistant Professor of Music*; D.M.A. University of South Carolina.

**Carter, Jack P.** *Associate Professor of Sociology*; Ph.D., Florida State University. Member, Graduate Faculty.

**Caruntu, Gabriel** *Assistant Professor of Chemistry*; Ph.D. University of Orleans (France). Member, Graduate Faculty.

**Casey-Konate, Tammie M.** *Associate Professor of Educational Leadership, Counseling and Foundations*; Ph.D., University of New Orleans.

**Chacko, Harsha E.** *Professor of Hotel, Restaurant and Tourism Administration*; Ph.D., University of New Orleans. Member, Graduate Faculty.

**Charalampidis, Dimitrios** *Associate Professor and Associate Chair of Electrical Engineering*; Ph.D., University of Central Florida. Member, Graduate Faculty.

**Chaudhry, Nauman A.** *Assistant Professor of Computer Science*; Ph.D., University of Michigan-Ann Arbor. Member, Graduate Faculty.

**Chauvin, Jane C.** *Visiting Professor of Curriculum and Instruction*; Ph.D., University of Southern Mississippi. Member, Graduate Faculty.

**Chen, Huimin** *Associate Professor of Electrical Engineering*; Ph.D., University of Connecticut. Member, Graduate Faculty.

**Chervenak, Edward E.** *Instructor in Political Science*; Ph.D., Tulane University. Member, Graduate Faculty.

**Clancy, Mary J.** *Associate Professor of Biological Sciences*; Ph.D., Princeton University. Member, Graduate Faculty.

**Cole, Richard B.** *Research Professor of Chemistry*; Ph.D., University of North Carolina, Chapel Hill. Member, Graduate Faculty.

**Compton, D'Lane R.** *Assistant Professor of Sociology*; Ph.D., Texas A & M University. Associate Member, Graduate Faculty.

**Conefry, Celeste** *Assistant Professor of French*; Ph.D., Tulane University. Member, Graduate Faculty.

**Cooke, John W.** *Professor of English*; Ph.D., Northwestern University. Member, Graduate Faculty.

**Cothren, Gianna M.** *Associate Professor and Associate Chair of the Department of Civil and Environmental Engineering*; Ph.D., Louisiana State University. Member, Graduate Faculty.

**Cranmer, Jean R.** *Associate Professor of French*; Ph.D., Tulane University. Member, Graduate Faculty.

**Cromartie, Jane S.** *Professor of Marketing*; Ph.D., University of Florida. Member, Graduate Faculty.

**Cronin, Mary Ellen** *Professor of Special Education and Habilitative Services*; Ph.D., University of Texas, Austin. Member, Graduate Faculty.

**Cropley, Lorelei D.** *Associate Professor of Human Performance and Health Promotion and Chair of the Department of Educational Leadership, Counseling and Foundations*; DP.PH, Tulane University. Member, Graduate Faculty.

**Crow, Stephen M.** *Professor of Management*; Ph.D., North Texas State University. Member, Graduate Faculty.

## D

**Dai, Jianbiao** *Adjunct Assistant Professor of Physics*; Ph.D., University of New Orleans.

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Crane, Janet E. *Associate Librarian*; M.S., University of North Carolina, Chapel Hill.  
Hankel, Marilyn L. *Librarian and Associate Dean of Library*; M.L.S., Louisiana State University.  
Jumonville, Florence Marie *Associate Librarian*; Ph.D., University of New Orleans.  
Morgan, Marie A. *Associate Librarian*; M.S.L.S., University of Kentucky.  
Pavy, Jeanne A. *Associate Librarian*; Ph.D., Emory University.  
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### Interdisciplinary Studies

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Harper, Daniel *Associate Director*; M.S., Southwest Missouri State University.

Williams, Gerard *Academic Counselor*; M.Ed., University of New Orleans.

## Admissions

- Anderson, Brandy** *Admissions Counselor for Graduate Credit*; B.S., University of New Orleans.
- Aryal, Ishwor** *Coordinator for Data Management & Technology*; B.S.E., Colorado Technical University.
- Austin, Anthony** *Associate Director for Recruitment*; M.A., University of New Orleans.
- Avalos-Dupree, Sabrina** *Coordinator for Communications*; B.A., University of New Orleans.
- Benoit, Andy** *Director of Admissions*; M.Ed., McNeese State University.
- Eldridge, Sara** *Admissions Counselor for Freshman Recruitment*; B.A., Knox College.
- Franco, Jorge** *Assistant Director for International Admissions*; B.A., Nicholls State University.
- Gilmore, Bronwyn** *Admissions Counselor for Freshman Recruitment*; B.A., Loyola University.
- Heaton, Christy** *Assistant Director for Orientation & Campus Programs*; M.A., Western Illinois University.
- Hussain, Adham** *Admissions Counselor for Transfer Credit*; B.A., University of New Orleans.
- Jackson, Susan** *Associate Director for Operations, Training and Credential Services*; M.Ed., Virginia Commonwealth University.
- Matthews, Jamie** *Admissions Counselor for Transfer Credit*; B.A., University of New Orleans.
- Pinkston, Phillip** *Admissions Counselor for Programs & Transfer Credit*; B.S., University of New Orleans.
- Silva, Fernando** *Admissions Counselor for International Admissions*; B.S., University of New Orleans.
- Smith, Katie** *Admissions Counselor for Freshman Recruitment*; B.A., University of Louisiana at Lafayette.
- Tuckerson, Mike** *Admissions Counselor for Transfer Credit* B.S., University of New Orleans.

## Developmental Mathematics Program

- Cobar, Leslie S.** *Instructor/Counselor Developmental Math*; M.S., University of New Orleans.
- Crespo, Lisa B.** *Instructor/Counselor Developmental Math*; M.S., University of New Orleans.
- Dinwiddie, Kate W.** *Instructor/Counselor Developmental Math*; M.S., University of New Orleans.
- Mancuso, Lori Feliu** *Instructor/Counselor Developmental Math*; M.S., University of New Orleans.
- Nowalsky, Judith L.** *Instructor/Counselor Developmental Math*; M.S., Tulane University.
- Olvany, Marguerite Dawn** *Instructor/Counselor Developmental Math*; M.S., University of New Orleans.
- Spahn, Toni Marie Tusa** *Instructor/Counselor Developmental Math*; M.S., Tulane University.

## Library Services

- Bopp, Melanie** *Library Associate*; B.A., Mount Holyoke College.
- Cabading, Patrick** *Library Associate*; B.A., University of New Orleans.
- Clifford, James** *Library Associate*; B.A., University of South Florida.
- Cuppy, Cassandra** *Library Associate*; B.S., Kansas State University.
- Davenport, Lisa** *Library Associate*; B.A., University of Southern Mississippi.
- Flora, Brenda** *Library Associate*; M.A., University of East Anglia.
- Heyl, Jessica** *Library Associate*; B.S.; University of New Orleans.

- Hodges, James W.** *Library Associate*; B.A., University of New Orleans.
- Joullian, Ronald** *Library Associate*; B.S. University of Montevallo.
- Korec, Anastacia** *Library Associate*; B.A., University of New Orleans.
- Levkowicz, Janet** *Library Associate*; B.A., University of New Orleans.
- Lew, Elizabeth** *Library Associate*; B.A., Tulane University
- Lien, James F.** *Library Associate*; B.A., Tulane University.
- Luty, Emmett I.** *Library Associate*; B.A., Johns Hopkins University.
- McDonald, Brian** *User Services Consultant/Administrative Director, University Success*; M.A., University of New Orleans.
- Mukherjee, Norma** *Assistant to the Dean*; B.B.A., Texas Tech University.
- Simmons, Faith** *Library Associate*; B.A., Tulane University.
- Werling, Lisa** *Library Associate*; B.A., Spring Hill College.
- Young, Catlin** *Library Associate*; B.A., University of Mary Washington.

## International Education

- Bucher, Lindsey** *International Student Advisor, Office of International Students and Scholars*; B.A., Ohio State University.
- Davidson, Margaret F.** *Resident Director, Academic Year Abroad*; Ph.D., Tulane University.
- Esmail, Suad** *Assistant Director, Office of International Students and Scholars*; M.Ed.; University of New Orleans.
- Hicks, Mary Iola** *Project Coordinator, Division of International Education*; M.Ed., University of New Orleans.
- Kaposchyn, Marie E.** *Program Director, Division of International Education*; M.A., University of New Orleans.
- Martinez, Andre J.** *Coordinator, Division of International Education*; B.A., University of New Orleans.
- Stewart, Jennifer N.** *Coordinator, Division of International Education*; M.F.A., University of New Orleans
- Thomas, Christiana** *Director, Office of International Students and Scholars*; M.A.; Indiana University of Pennsylvania.
- Zanotti, Mariana** *Coordinator, Division of International Education*; B.A., Tulane University.
- Ziegler, Irene B.** *Coordinator, Division of International Education*; Ph.D., University of Graz.

## Intensive English

- Cavey, Doris M.** *Teaching Associate, Intensive English Language Program*; M.Ed., University of New Orleans.
- Criswell, Dana M.** *Program Director, Intensive English Language Program*; M.A., University of New Orleans.
- Gonzales, LaTasha** *Teaching Associate, Intensive English Language Program*; M.A., Monterey Institute of International Studies.
- Linville, Bethany** *Teaching Associate, Intensive English Language Program*; M.A., Tulane University.
- Winkler, Phoebe** *Teaching Associate, Intensive English Language Program*; M.Ed., Seattle University.

## Learning Resource Center

- Danielson, Susan N.** *Instructor/Director of Learning Resource Center*; M.S., University of New Orleans.
- Guillory, William** *Administrative Coordinator of Learning Resource Center*; B.A., Stanford University

## Math Tutor Center

- Broussard, Jr., Staffas Vincent** *Instructor/Coordinator of Math Tutor Center*; M.S., University of New Orleans.

## Registrar

- Arceneaux, Alex R. *Executive Assistant to the Registrar*; M.Ed., University of New Orleans.
- Davis, Janet L. *Associate Registrar*; M.A., Southeastern Louisiana University.
- Owen, Grace *Administrative Services Coordinator*; M.F.A., University of New Orleans.
- Plante, Kathleen G. *University Registrar*; M.A., University of Arkansas at Little Rock.
- Reed, Donna M. *Director of Records & Registration*; M.Ed., University of New Orleans.
- Soharu, Rajni E. *Assistant Registrar for Technology*; M.S., University of New Orleans.

## Student Financial Aid

- Baptiste, Shantrella *Coordinator Reception Services*; B.A., University of New Orleans.
- Brunious, Leslie H. *Assistant Director for Financial Aid Fiscal Operations*; M.B.A., University of New Orleans.
- Burrell, Allen C. *Associate Director for Computer Systems*; B.S., Xavier University.
- Carter, Leslie J. *Financial Aid Counselor*; B.S., Southern University in New Orleans.
- Day, Pamela *Work-Study Officer*.
- DeGruy, Ashley *Administrative Coordinator 2*; B.A., Southern University of New Orleans.
- Dickerson, Zena *Chief Coordinator of Scholarships*; B.A., Mississippi State University.
- Fajardo, Jessica *Scholarship Officer*; B.A., University of New Orleans.
- Garrett, La'Charlotte' *Coordinator of Student Employment & Verification*; M.B.A., University of Phoenix.
- Garrity, Marla *Financial Aid Counselor*; B.S., Louisiana State University.
- Gavion, Calvin *Validator*; B.A., Dillard University.
- Green, Nicole *Validator*.
- Harold, Rashad *Financial Aid Counselor*; B.A. Xavier University
- Hornyan, Brenda K. *Assistant Director for Computer Systems*; M.B.A., University of New Orleans.
- Lockridge, Ann *Coordinator, Loan Processing and Chairperson of SAP*; B.A., Our Lady of Holy Cross College.
- London-Jones, Emily *Director*; M.A., Xavier University.
- Prevost, Coye *Financial Aid Counselor*; B.S., Grambling State University.
- Richardson, Christina *Financial Aid Counselor*; B.S., University of New Orleans.
- Spellman, Denise B. *Associate Director of Financial Aid*; B.G.S., University of New Orleans.
- Williams, Jennifer *Financial Aid Counselor*; B.A., University of New Orleans.

## Student Support Services

- Braud, Daniel Boake *Counselor, Student Support Services*; M.A., University of New Orleans.
- Chapuis, Nora Allen *Director Student Support Services*; M.A., University of New Orleans.
- D'Angelo, Linda *Administrative Coordinator III*; Associate Degree, Phillips Junior College.
- Marullo, Tammy Lynn *Associate Director/Associate-Teaching Student Support Services*; M.Ed. University of New Orleans.

## University Computing and Communication

- Adams, Robert *Unix System Administrator*; B.S., University of New Orleans.
- Adler, Michael J. *Assistant Director*; B.A., University of Southwestern Louisiana.
- Anderson, Eric W. *Coordinator of Media Resources*; B.A., University of New Orleans.
- Austin, Kathy *Security Administrator*.
- Baham, Susan *Application Team Leader*; B.A., University of Houston.
- Bonilla, Victoria *Assistant to the Manager of Finance and Special Programs*; B.A. University of New Orleans.
- Brannon, Walter S. *Manager/University Email Systems*; B.A., University of Florida.
- Bray, Irene *Senior User Support Consultant*.
- Bruhn, Brian P. *Coordinator of Technical Services*.
- Carpenter, Chris *Application Team Leader*; B.A., University of New Orleans.
- Cutrera, Jr., Nick S. *Manager of Desktop Computing*; B.S., University of New Orleans.
- D'Aquin, Kenneth *Manager, Data and Application*; B.A., University of New Orleans.
- Douville, Geoffrey *Production Specialist, Media Productions*; B.A., University of New Orleans.
- Dupree, David A. *Director for Application Systems*; M.Ed., University of New Orleans.
- Gafeney, LaToya *Peoplesoft Trainer*; B.S. University of New Orleans
- Gaffney, Robert *Analyst-Data Processing*; B.S., Auburn University.
- Gudan, Thomas *Manager of Technical Services*; B.S., American University.
- Hardin, Ellis *Unix System Analyst*; M.S., University of New Orleans.
- Henri, Lauri L. *Assistant Director of Application Systems/Peoplesoft Project Manager*; B.A., Nicholls State University.
- Henriquez, Juan A. *Director of User Training and Support*; M.S., University of New Orleans.
- Hillburn, George *Senior Network Technician*.
- Houck, Cyprian *Help Desk Support Consultant*.
- Jones, Yolanda *Telephone Systems Operator II*.
- Landry, Dottie *Administrative Assistant IV*.
- Lewis, Charlotte K. *Director*; M.S., University of New Orleans.
- Lewis, Cheryl *Information Tech Consultant*.
- Loup, Adam *Programmer*; B.S., University of New Orleans
- Lott, Michael *Programmer Analyst*; B.S., University of New Orleans.
- Marrero, Melvin *Information Tech Consultant*.
- Marshall, Chris T. *Manager of Enterprise Networks*.
- Martinez, Billy *Enterprise Projects Analyst*.
- McCorkle, Jesse *User Services Analyst*.
- McNeese, Laurie *Instructional Tech Coordinator*; M.Ed., Southwestern Oklahoma State University.
- Meredith, Robert *Project Support Consultant*.
- Merrick, Kenneth *Programmer*; B.S. University of New Orleans.
- Minnis, Pierre *LAN Administrator*; B.S., University of New Orleans.
- Prados, Amelia *Manager of Finance and Special Programs*; B.S., Louisiana State University.
- Randolph, Gregory H. *Media Production Engineer*.
- Regan, Robert J. *Web Programmer and Developer*; B.S., University of Phoenix.

Rini, Brian M. *Assistant Database Administrator*; B.S., University of New Orleans.

Rizzo, Chris *Database Administrator*; M.S., University of New Orleans.

Rodriguez, Derek *Helpdesk Manager*; B.A., University of New Orleans.

Rooney, David *Programmer/Analyst*; B.S., Rider College.

Shaw, Jonathan *Network Engineer*; M.S., University of New Orleans.

Sheffield, William G. *Electronics Shop Manager*; A.S., Delgado Community College.

Sicard, Bill *Database Administrator*; M.S., National Technology Institute.

Smith III, Edward P. *Media Specialist*.

Stott, Philip *Senior Network Engineer*; B.S., University of New Orleans.

Turner, Anna K. *Access Control Coordinator*; B.A., Tulane University.

Turner, Anna K. *Access Control Coordinator*; B.A., Tulane University.

Ulmer, Ernest *Telecommunications Analyst*.

Villemuer, Christopher *Enterprise Project Analyst*; B.S., University of New Orleans.

Watkins, Michelle *Assistant DBA Security*; M.B.A., University of New Orleans.

Weiser, Paul *Application Analyst*; M.B.A., University of New Orleans.

Wilson, Herbert A. *Enterprise Projects Analyst*; B.S., University of New Orleans.

### Writing Center

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Fink, Inge *Instructor/Director of the Writing Center*; M.A., University of Innsbruck.

# Admissions

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Admission to the University and to all its programs and operations is open to all persons regardless of race, creed, color, sex, age, marital status, handicap, veterans' status, or national origin who meet the admission requirements and qualifications of the University.

The University requires a non-refundable \$40 application fee of all new applicants (required for first time applicant to UNO only). The fee is payable when the application is submitted to the Office of Admissions. Priority dates for the receipt of an application are July 1 for the fall semester, November 15 for the spring semester, and May 1 for the summer session. International students should refer to <http://admissions.uno.edu> for admission deadlines. An additional non-refundable \$30 late application fee will be charged for all late applications.

**Summer Session:** Application forms for summer admission to the University should be submitted as early as possible so that an admission decision may be given. If records are not received at least 30 days prior to the beginning of the summer session, it may not be possible to notify students of their admissibility before arrival on the campus.

For information and application forms, contact the Office of Admissions, UNO, Lakefront, New Orleans, Louisiana 70148; or access the University on the World Wide Web at <http://www.uno.edu>

## UNDERGRADUATE ADMISSIONS

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### Categories of Admission and Procedures

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#### EARLY ADMISSION

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Outstanding high school students who have completed their junior year of high school may be admitted to the University, in any of the following categories, if they meet the stated requirements. Students must be academically prepared to enroll, and there must be the ability to predict academic success.

**Dual Enrollment.** Immediately following the sophomore year in high school, students may be enrolled in University courses that carry corresponding levels of high school credit. Students may receive funding from the State of Louisiana for this, and in some cases from the University. Students are limited to one course to receive funding.

**Concurrent Enrollment** During the fall and/or spring of the junior senior year of high school, students may be enrolled at their high school and at the University. They are allowed to take up to 6 semester hours of credit, depending on how demanding is their high school schedule.

**Full-Time Enrollment** Students having the approval of their high

school principal may "skip" the senior year of school and register as full-time students. These students may be eligible to receive their high school diploma after successfully completing 24 semester hours of credit.

**Summer Only** During the summer between their junior and senior year of high school qualified students are allowed to schedule up to seven semester hours of credit.

To be admitted to any of the above Early Admission categories, a student:

1. must have completed the junior year of high school,
2. must be recommended for Early Admission by the high school principal,
3. must have a B average on all high school grades, and
4. must have a composite ACT (American College Test) score of 25 or higher (SAT score of 1130 or higher) for the Summer Only or Concurrent category, and 28 (SAT score of 1240 or higher) or higher score for the Full-Time program.

Students wishing to apply for admission to any of the Early Admission categories should contact the Office of Admissions at UNO for the necessary application forms.

## NEW FRESHMEN

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### Freshman Admission Requirement

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Students who graduate from state-approved high schools must complete the Louisiana Board of Regents Core Curriculum (See Core Curriculum listed below) and require no more than one developmental/remedial course (ACT of 18 or higher or equivalent SAT score on English, ACT of 19 or higher or equivalent SAT score on Mathematics is non-remedial) AND one of the following:

- ACT composite score of 23 or greater (SAT I Math + Critical Reading combined score of 1060 or greater) OR
- High school cumulative GPA of 2.5 or greater with OR
- High school graduation rank top 25% of class

Out-of-State and Homeschool students who do not meet the core curriculum must satisfy all items in #1-3 or have a composite ACT score of 26 or greater (SAT I Math + Critical Reading combined score of 1170 or greater) and require no more than one developmental/remedial course.

Adult Freshmen age 25 and over who are graduates of state approved high schools (or have received their GED) need not satisfy the test score, GPA and rank admission requirements.

The Office of Admissions may consider students for exceptions if they are deficit no more than one major requirement – either GPA, class rank, or test score. If the student is deficit in the test score, class rank, and GPA, then the student file shall be submitted to the Admissions Review Board for consideration. The board shall make recommendations to the Director of Admissions as to the immediate dispensation of the student's file.

Students must submit admission applications by prescribed priority dates in order to ensure proper consideration for exceptions.

\*Students may be considered administratively or through the Admissions Review Board.

## Louisiana Board of Regents Core Curriculum

Units	Course
4	English I, II, III, and IV
1	Algebra I or Integrated Mathematics I or Algebra I – Parts 1 & 2 (two units) or Applied Algebra 1A & 1B (two units) or Applied Mathematics I & II (two units)
1	Algebra II or Integrated Mathematics II
1	Geometry, Calculus, Advanced Math I or II, Pre-Calculus, Probability and Statistics, Discrete Mathematics, Algebra III, Applied Mathematics III, Integrated Mathematics III, or AP Calculus AB
1	Biology I or II
1	Chemistry I or II, or Chemistry Com
1	Earth Science, Physical Science, Environmental Science, Biology II, Chemistry II, Physics, Physics II, Physics for Technology, AP Physics C: Electricity & Magnetism, AP Physics C: Mechanics, or Agriscience I & II (two units)
1	Additional Math or Science: Geometry, Calculus, Advanced Math I, Advanced Math II, Pre-Calculus, Probability and Statistics, Discrete Mathematics, Algebra III, Applied Mathematics III, Integrated Mathematics III, AP Calculus AB, Biology II, Chemistry II, Physics, Physics II, AP Physics C: Electricity & Magnetism, or AP Physics C: Mechanics
1	American History
1	Civics and Free Enterprise (1 unit combined), Civics, or AP American Government
1	World History, Western Civilization, World Geography, or European History
1	Fine Arts Survey or 2 units of performance courses in music, dance or theater or 2 units of studio art or 2 units of visual art or Speech III & IV (two units) or 1 unit of an elective from among the other subjects listed in this core curriculum
2	Foreign Language (2 units in the same language), or American Sign Language I & II
1/2	Computer Science I or II, Business Computer Applications, Computer Technology Literacy, Introduction to Business Computer Applications, or Computer Science Elective or Word Processing, Computer Multimedia Presentations, Desktop Publishing, Web Design, Telecommunications, Computer Applications, Computer Architecture, Computer Systems/Networking I, Digital Graphics and Animation, Multimedia Productions, Webmastering, Independent Study In Technology Applications, AP Computer Science A, AP Computer Science AB, Database Design and Programming, Java Programming, Database Programming with PL/SQL Training, Digital Media I or II,

or 1/2 unit of an elective from among the other subjects listed in this core curriculum

17.5 Total Core Curriculum Units

NOTE: Other courses may be acceptable as substitutes for courses in the core curriculum. Contact LOSFA at [www.osfa.state.la.us](http://www.osfa.state.la.us) for more information on acceptable substitute courses. All freshman applicants should submit their applications as early as possible in their senior year. Applicants who meet admission requirements will be admitted conditionally as soon as possible after receipt of the application, official test scores, and official high school transcripts. UNO will retrieve transcripts for Louisiana high school graduates from the Louisiana State Transcript System (STS) if available. An official transcript certifying courses, grades and graduation from high school is required to finalize admission.

Transcripts must be mailed directly from the high school to the UNO Office of Admissions in order to be considered official; ACT/SAT I scores must be sent directly to UNO from the American College Testing Program/Educational Testing Services.

Students should consult the Special Student section for other exceptions to regular admission requirements.

## Advanced Standing Examinations

Students of superior ability and preparation and students who have already obtained a fundamental knowledge of subjects offered by the University may be permitted to take departmental advanced standing examinations in specific courses, which, if passed with satisfactory grades, will enable the student to receive degree credit. The Advanced Placement tests of the College Entrance Examination Board (CEEB) and the subject examinations of the College Level Examination Program (CLEP) also may be used as a basis for allowing advanced standing credit. Details on advanced standing are outlined in the chapter entitled University Regulations. New freshmen may also seek advanced standing through the University Spring Testing Program during the spring of their senior year of high school. Contact the Office of Admissions for details. Please note that advanced standing credit earned may not be used for the last 30 hours of degree requirements.

## Admissions Review Board

Admission to the University requires careful consideration of students with academic profiles across the ability spectrum. Current standards for the admission of new freshmen and transfers exist, as well as consideration of admission requests from re-entry students from UNO and other institutions. While the Office of Admissions employs procedures for the timely review and disposition of admission requests from students who meet the current standards, additional input from campus representatives is a desirable element in rendering decisions for students who fall short of established admission standards, but who show academic promise.

The Admissions Review Board shall convene to review admission applications which, in the opinion of the Director of Admissions, warrant further review. The Board shall give careful consideration to multiple elements in the students' academic profile in the course of the review and make recommendations to the Director of Admissions for acceptance or denial of such requests. Even further, the board shall make recommendations regarding conditions or restrictions placed on the student's admission, including change of program/plan, course restrictions, and academic load.

The Admissions Review Board shall also act as an appellate board for students who dispute an admission decision.

Those applicants who are now or have been in college should submit applications as early as possible in the semester preceding the date that admission is desired. Eligibility for admission cannot be determined until the application and complete official transcripts from each college and university attended have been received. If these records are not received at least 30 days before the beginning of registration, it may not be possible to process the application in time. Applicants must list on their applications each college and university attended and have transcripts sent from all institutions attended, regardless of whether credit was earned or is desired. Any student who fails to acknowledge attendance in each college or university in which he or she has been registered is subject to dismissal from the University.

Students enrolled in college at the time applications are submitted should have transcripts sent when they apply for admission, to be followed by the complete final transcript at the close of the semester. Provisional admission pending receipt of supplementary records may be given provided all records except for the work in progress have been received. This admission will be cancelled and the enrollment terminated if the student fails to file all required records within 30 days of the beginning of instruction or if the completed record does not meet requirements for admission.

Credits earned at other post-secondary institutions and presented for transfer credit will be evaluated according to four considerations:

1. the educational quality of the institution from which the credit is being transferred;
2. the comparability of the nature, content, or level of credit to that offered by UNO;
3. the appropriateness and applicability of credit earned to the programs offered by UNO; and
4. a member of one if the six regional accrediting agencies.

The extent to which credits earned in colleges and universities are accepted toward the degree program the student follows at UNO is determined by the dean of the college in which the student plans to major. If students have previously received a failing grade in 1158 from UNO, they must take and pass English 1158 with a grade of C or better. Transfer students with a D in English 1158 must re-take the course at UNO.

Students transferring with 1158 credit may take any upper-level English course for which they qualify during their first semester, provided that they resolve their 1158 transfer credits within that first semester.

Transcripts are required components of all transfer students in order to evaluate courses for transfer determination. Not more than one-half the credit required for a degree may be accepted from junior or community colleges. A maximum of one-fourth the credit required for the degree may be earned through appropriate university correspondence and extension study. Students must complete the last 30 hours prior to graduation in residency at UNO. Students not meeting general transfer requirements (2.00 or greater, but less than a 2.25) may be admitted by the Director of Admissions via exception. Students with less than a 2.00 GPA may be approved for admission exception by the Admissions Review Board. Students considered for exceptions to the admissions requirements must submit official admissions applications by prescribed application deadlines for each semester. Students applying after the deadline may be considered, but should be counseled that the likelihood of their approval will not be guaranteed due to established exception limits.

Transfer students with less than 18 semester hours of earned credit must satisfy freshman requirements as well as transfer admission requirements.

Former UNO undergraduate students who were not enrolled in the regular semester immediately preceding the semester of desired enrollment must apply for admission according to the deadline published in the catalog. If intervening college work was taken, official transcripts from all institutions attended must be submitted.

Former students who were on scholastic probation and are readmitted will be continued on scholastic probation regardless of the average earned at the other institution(s).

Former students whose last enrollment at UNO resulted in a drop or suspension for scholastic or disciplinary reasons may not obtain credit toward a degree at this university with credit earned at another institution during the period of ineligibility to register at UNO. Depending on the quality point deficiency, students may be required to appeal to the senior college for re-entry.

## SUMMER-ONLY STUDENTS

Students who are enrolled in any accredited college or university during a spring semester and will be eligible to return to that college or university in the following fall and wish to enroll in UNO for the summer session only may be considered for admission as non-matriculated students. Such admission will terminate at the end of the summer session and does not presuppose acceptance by any college or division of the University during the regular session. Students attending on this basis must submit certification of eligibility from the college or university in which they are currently enrolled stating total number of credit hours previously earned. This certification of eligibility will be accepted in lieu of official transcripts. New freshmen entering UNO during the summer are not classified as summer-only students even though they plan to attend another university in the fall. Unofficial College/University transcripts may be required in order to satisfy any course prerequisites requirements for registration.

## SPECIAL STUDENT PROGRAM

This program is designed for non-degree seeking students whose intention is to only enroll in undergraduate courses.

### Eligibility Requirements

To be eligible for enrollment in undergraduate credit courses in the Special Student status, students must satisfy one of the following criteria:

1. If you never attended college, you must have completed high school or have earned your GED and be at least 25 years of age.
2. If you have attended college, you must be eligible to return to your home institution. Enrollment at your last accredited institution of higher education must not have resulted in an academic/disciplinary suspension.
3. Candidates must submit all prior transcripts to be considered. Certain exceptions may be made with the approval of the Director of Admissions; however, those students will be admitted on a probationary basis with a limited enrollment of 6 hours during the first semester of attendance.

### Credits Earned

Credits earned in Special Student status are recorded on the student's permanent academic record. Credits earned in the Special Student status may or may not be applied to a degree program at UNO to be determined by the Dean of the college to which the student is admitted after the students applies and meets the normal admission requirements. A maximum of 30 hours of credit earned as a Special Student will be allowed toward a degree program at UNO. A minimum

degree is awarded. Students in Special Student status may not enroll in graduate level courses.

## **Academic Advisement and Continuing Each Semester**

Since prior college work is not posted to the student's record unless they apply and are admitted to a degree program, students must contact the college office to determine course enrollment eligibility. This may include taking necessary placement tests in English, mathematics, and foreign language. All prior transcripts and test scores are added to the student's file and will be available for the college office. To continue each semester, the student must complete a request in the admissions office and meet satisfactory academic progress the prior semester.

## **Academic Standards and Regulations**

Students in the Special Student status participate in credit courses side by side with degree students. Day, evening, and off-campus credit offerings of UNO are taught by regular faculty members. The standards maintained for each offering are the same. Outside preparation and study are required in all UNO credit classes. Students are advised not to enroll unless they have time to study and attend classes regularly.

Special Students are subject to University rule governing class attendance, minimum grade point average, schedule changes, resignations, and other academic regulations. Academic standing will be determined on the basis of coursework taken in the Special Student status only. A Special Student who is admitted later to regular status will have his/her academic status determined by the admitting dean on the basis of the complete record.

A Special Student may not petition for scholastic amnesty or permission to take advanced standing examinations. In addition, a Special Student may not receive credit for by-pass courses, CEEB Advanced Placement Examinations, the College Level Examinations Program, armed services courses, and correspondence courses. Special Students who change to degree status may petition the dean of the new college for all of the above.

A Special Student is eligible to apply for a grade suspension when a course is repeated. If a Special Student changes to degree status the grade suspension will be reviewed in light of the complete UNO and transfer record and may be nullified if it appears as though the student would not have been eligible for the original suspension.

## **Veterans**

Veterans planning to attend UNO under one of the public laws governing veterans' educational benefits should not attempt to enroll in the Special Student status. To be eligible for educational benefits, a veteran must enroll in regular status.

## **International Students**

International students are not eligible for Special Student status.

## **Financial Aid**

Special Students are not eligible for Pell Grants and many other types of financial aid. Please check with our Financial Aid Office at (504) 280-6603 for more details.

## **Application for Degree Program**

Students in the Special Student status desiring to change to a degree program must:

1. Complete a Change to Undergraduate Degree Status form located in the Admissions office.
2. Submit official transcripts from all colleges/universities attended.
3. Meet minimum requirements for admission.

Citizens of a foreign country applying to UNO as freshmen and transfer undergraduate students are expected to meet all requirements for admission to the University. Graduates of foreign secondary schools who have completed the equivalent of at least an American high school diploma may apply for admission to UNO. Transfer applicants are considered for admission on the basis of secondary school records as well as previous college records. The deadline dates for filing applications and submitting complete official records are June 1 for the fall semester, October 1 for the spring semester, March 1 for the summer session.

Proficiency in the English language is vital to the academic success of international students. All students whose native language is not English are required to submit an acceptable Test of English as a Foreign Language (TOEFL) score of 525 with a composite score of 50 on the listening comprehension section or a composite score of 195 on the computer based test or 71 on the internet based version as part of the application process. For additional information on the TOEFL write: TOEFL, Educational Testing Service, Princeton, New Jersey 08540, USA. Further testing will be given to verify English competency when the student arrives on campus.

In certain cases applicants with superior academic credentials who do not meet the minimum TOEFL requirement may be considered for admission into the Intensive English Language Program before pursuing a degree. All applicants are required to provide evidence of sufficient funds to cover all costs while studying at the University.

It is mandatory that all international students participate in the LSU System student medical insurance program. Fees for this insurance will be assessed at registration.

## **GOLDEN AGER PROGRAM**

This program is designed to encourage persons over 65 years of age to enroll in credit classes at UNO. It has been made possible by state legislation which exempts persons age 65 and over from payment of tuition and fees at all public colleges and universities in the state. The costs of textbooks and special fees are not included in the fee exemption.

The same academic regulations which apply to the student body in general also apply to Golden Agers. These include class attendance, testing, course prerequisites, and admission requirements. It is recommended that Golden Agers apply for their first admission through the Special Student Program.

## **Scholastic Amnesty**

The University permits students who have not attended college for a given three-year period to request that all (or part) work prior to that three-year period not be considered in computing their averages. This allows a student who may have made a poor record in the first attempt at college to start over with a "clean slate." Of course, this means sacrificing any credit earned prior to that three-year period also. For further explanation the student should consult the Office of Admissions or the dean of the college in which the student wishes to study.

# Fees and Financial Aid

Fees for auditing classes are the same as for enrolling for credit. Non-resident fees, however, are not applicable if the student is enrolled in audit classes only. Audit classes cannot be used as eligible classes for establishing minimum enrollment requirements for Financial Aid Programs. (This includes all grant, loan, and scholarship programs.)

## Special Fees

**\*\* SPECIAL FEES ARE NON-REFUNDABLE \*\***

Biological Sciences 1042, 1051, 1061, 1071, 1081, 2014, 3284, 3854, 4334, 4334G, 4384, 4384G, 4414, 4414G, 4624, 4624G, 4644, 4644G, 4714, 4714G, 4844, 4844G, 4914, 4914G, 4944, 4944G, 4954, 4954G, 4974, 4974G	\$22
Biological Sciences 1301, 2114, 2954, 3354, 4114	\$27.50
Biological Sciences 1311, 2711	\$33
Chemistry 1007, 1008	\$22
Chemistry 2025, 2026, 3027, 4028, 4028G, 4030, 4030G	\$33
Earth and Environmental Science 1001, 1002, 1003, 1004, 1005	\$22
Engineering Lab	\$55
English 2311, 2312	\$11
Fine Arts 1050, 1051, 1060, 1061	\$82.50
Fine Arts 1551, 2550, 2651, 2750, 3301, 3302, 3550, 3650, 2750, 4550, 4750, 4650	\$165
Film, Theatre and Communication Arts 3510, 4510, 4510G, 6510	\$110
Earth & Environmental Sciences 1000, 1002, 1003, 1004, 1005	\$22
Earth & Environmental Sciences 3093	\$33
Hotel, Restaurant and Tourism Administration 2030	\$137.50
Hotel, Restaurant and Tourism Administration 3141	\$55
Hotel, Restaurant and Tourism Administration 4230	\$16.50
Music 3950, 3960, 3990, 6950, 6990	\$82.50
Music Applied Lessons	\$220
Naval Architecture & Marine Engineering 3130, 4170, 6145	\$55.00
Physics 1003, 1004, 1007, 1008, 1011, 1033, 1034, 1063, 1065	\$22
Telecourse Offerings (401-409 sections only)	\$20/course
Internet Courses (476-480 sections only)	\$20/course
Second Life Courses (481-485 sections only)	\$20/course
Television Courses (495-499 sections only)	\$20/course
Co-op course fee	\$75
Distance Learning Fee	\$20/course

## Miscellaneous Fees

Registration Fee NON-REFUNDABLE <sup>1</sup>	\$10
Late Registration Fee NON-REFUNDABLE	\$50

Application Fee NON-REFUNDABLE <sup>2</sup>	\$50
Late Application Fee NON-REFUNDABLE	\$30
Advanced Standing Examination Fee	\$20
Graduate Enhancement Fee	\$30/cr. hr.
Extended Payment Plan Option (EPPO) NON-REFUNDABLE	
Not available for Summer semesters	\$50
International Student Fee NON-REFUNDABLE	\$150
Off-Campus Registration Fee NON-REFUNDABLE <sup>3</sup>	
(except for Graduate students)	\$75
Technology Fee (\$75 maximum per semester)	\$5/credit hour
Operational Fee–Undergraduate (Fall and Spring)	
1-3 hours	\$22
4-6 hours	\$43
7-9 hours	\$54
10-11 hours	\$64
12 hours and up	\$69
Operational Fee–Graduate (Fall and Spring)	
1-3 hours	\$22
4-6 hours	\$43
7-8 hours	\$54
9 hours and up	\$69
Operational Fee–Undergraduate (Summer)	
1-3 hours	\$23
4-5 hours	\$33
6 hours and up	\$40
Operational Fee–Graduate (Summer)	
1-3 hours	\$23
4-5 hours	\$33
6 hours and up	\$40
Professional Program Fee – MBA	
Summer	
1-3 credits	\$663
4-5 credits	\$977
6-Up	\$1,173
Fall and Spring	
1-3 credits	\$632
4-6 credits	\$1,244
7-8 credits	\$1,570
9-Up	\$2,000
Fuel Recovery Fee (Fall and Spring)	\$3.70 per credit hour
Academic Excellence Fee	\$10/credit hour (\$120 maximum)

**\*\* DIPLOMA FEES ARE NON REFUNDABLE \*\***

Bachelor's.....	\$50
Master's.....	\$50
Doctoral.....	\$50
Dissertation Processing & Microfilming.....	\$45
Thesis Processing.....	\$20
Degree only fee.....	\$15
Diploma remake.....	\$50

<sup>1</sup> This fee will not be assessed to first-time freshmen.  
<sup>2</sup> This fee is not assessed to students re-entering the University.  
<sup>3</sup> Also applies to undergraduate students enrolled in both on- and off-campus courses.

## Refund of Fees

When a student officially resigns from the University, refund of the University fees and nonresident fees for the class(es) in which the student is currently enrolled will be made as shown in the Course Schedule Bulletin.

Student schedule changes (not resulting in a resignation from the university) which require reductions in fee assessments will be refunded at the full rate if such changes are made on or before the final date for adding courses or changing sections in a semester. Thereafter no refund will be made for reduction of hours.

Students administratively resigned from the University because their provisional admissions are not approved will be refunded according to the Class Schedule Bulletin.

Due to the volume of student-initiated resignations and schedule changes, the University will be unable to provide fee refunds for at least two to three weeks following the first day of classes during any semester.

Students due a University fee refund because of a course cancellation should contact the Bursar. Field service and laboratory fees are generally not refundable unless the course is canceled. Fees for auditing courses will not be refunded.

## MILITARY SERVICE REFUND

Students in good standing who volunteer for or are called to active duty with the Armed Services before the day mid semester examinations begin will have the University fee, and, if applicable, the nonresident fee refunded in full. After mid semester examinations begin only 50 percent of the University fee and, if applicable, the nonresident fee will be refunded.

Documentary proof establishing voluntary or involuntary enlistment must be submitted to the Office of the Registrar and will be required before any fees are refunded.

## Motor Vehicle Registration

All UNO students (inclusive of full-time, part-time, day, evening, Saturday only, etc.,) must purchase a parking decal prior to parking any vehicle on the main campus or east campus. All parking on campus (except in pay parking lots) is by parking permit only. Decals are issued Monday-Friday between 8:00 a.m. thru 4:30 p.m. at the University Police Office. To obtain a parking permit University Police requires:

- Receipt from completion of online application for decal or payment receipt for a parking decal from the Bursar's Counter.
- Current driver's license
- Current motor vehicle registration (if a new vehicle, present your temporary license plate, which is attached to the back of your temporary registration paper)

	1st Motor Vehicle	Additional Motor Vehicle
Fall Semester	\$100	\$50
Spring Semester	\$85	\$43
Summer Session	\$60	\$30

Student decals are issued beginning the first day of Centralized Enrollment Services. Residential decals for Pontchartrain Hall must be renewed each semester. Privateer Place residents can receive one Privateer Decal per person, renewable each year. There is no cost for residential decals.

Fees are subject to change without prior notice, and no refunds will be issued. However, decals will be replaced without charge (e.g., to accommodate broken windshields, new car purchases, and similar situations) if you remove the valid decal and bring it in (the current year and number of the decal) to University Police; otherwise, you will be charged for an additional decal in accordance with the rates in effect for that particular semester.

The decal must be permanently affixed to the vehicle to which it is assigned. Registration is not complete until the decal is affixed to the outside lower part of the rear windshield on the left (driver's) side in the self-adhesive manner. Decals are nontransferable.

## Financial Aid

The Office of Student Financial Aid is responsible for processing financial aid programs, including Federal Grants, Federal Direct Student Loans, Scholarships, and Student Employment (part-time campus work). Students interested in receiving financial aid should first complete the Free Application for Federal Student Aid (FAFSA) and be accepted for admission to the university. A list of many deadlines and helpful information about financing your UNO education is available from the Office of Student Financial Aid or online at <http://www.finaid.uno.edu/>. This office will evaluate each student's eligibility based upon information received from the Federal Student Aid Center once you have filled out your FAFSA, in accordance with the financial aid policy below.

Information about student aid, the FAFSA, and other financial aid forms may be obtained either from the Office of Student Financial Aid, University of New Orleans, Administration Building, Room 1005, New Orleans, LA 70148 or from the UNO website; <http://www.uno.edu/>

## Financial Aid Policy

A student must be admitted into the University as a degree seeking student in an eligible curriculum in order to be considered for financial aid.

In determining the eligibility for financial assistance, the Office of Student Financial Aid is guided by the data supplied by the parents and/or student on the FAFSA which determines the contribution that is expected from family resources and the student's estimated expenses known as the Cost of Attendance (COA). The university attempts to provide the difference between the cost of attendance and the Expected Family Contribution (EFC). In some cases, there is aid available to assist in fulfilling the EFC in the form of a Federal Direct Unsubsidized Stafford Student Loan or a Federal Direct PLUS loan for parents of dependent students. Financial aid packages may not exceed the students cost of attendance.

April 15 of each award year is the priority deadline date for priority processing of financial aid. Students interested in participating in one of the federal or state student financial assistance programs at UNO (Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, ACG/SMART Grants, Federal College Work-Study Program, Louisiana GO Grant, Leveraging Educational Assistance Partnership Grant, Federal Perkins Loan, or the Federal Direct Stafford Program (i.e., Federal Direct Stafford, Federal Direct Grad Plus and Federal Direct

from high school counselors, the UNO Office of Student Financial Aid, or online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov)<<http://www.fafsa.ed.gov>>. You must complete the FAFSA each year in which you are enrolled! The FAFSA/Renewal FAFSA is generally made available January 1st of each year.

When you are awarded, students are packaged financial aid annually for the fall and spring semesters combined. Students wishing to attend the summer semester may apply for residual aid that was not used during the fall and spring semesters or additional available funding (i.e., Year Round Pell) by completing a Summer Financial Aid

## **Grants**

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Federal Pell Grants are available to undergraduates who have not yet attained a bachelor's degree. The maximum amount of the grant will be set by the U.S. Department of Education based on congressional appropriations. The actual amount of the grant is determined by the Expected Family Contribution (EFC) which is based on income and assets of the family, as well as, by the number of credit hours the student enrolls.

### **Louisiana GO Grant**

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The purpose of this program is to provide a need-based component to the state's financial aid plan to support nontraditional and low to moderate-income students who need additional aid to afford the cost of attending college.

To be eligible for a Louisiana Go Grant, a student must:

Be a Louisiana Resident;\* File a Free Application for Federal Student Aid (FAFSA); Receive a federal Pell grant or a financial need grant; Have an Education Cost Gap (ECG) greater than \$0;\*\* and be a student enrolled in an eligible Louisiana institution on a part-time or full-time basis who:

Entered college as a first time freshman during academic year 2007-2008 or later; OR

Entered college as a first time freshman during the 2007-08 academic year or later and have become eligible for a federal Pell grant or financial need grant after the freshman year. OR

Be age 25 or older and have entered college as a first time freshman before the 2007-08 academic year and have had a break in enrollment of at least two consecutive semesters, not including a summer semester or term, immediately preceding the period of enrollment for which the student is being considered for receipt of a grant.

Eligible students will receive the following award amounts per year: \$2000 - Full-time (12 credit hours in a degree program). \$1,000 - Half-time (6-11 credit hours). \$500 - Less than half-time (less than 6 credit hours). The Go Grant may be awarded for summer sessions in instances where the student has not utilized their annual award maximum of \$2,000. The summer award may NOT exceed \$1,000.

Any student who was a first time freshman beginning with the 2007-08 academic year or later who was not initially Pell eligible but subsequently becomes Pell eligible then also qualifies for a GO Grant award.

To receive a grant in subsequent years, the student must file a FAFSA or the Renewal Application at least annually, continue receiving a Pell or a financial need grant, have an ECG greater than \$0, and maintain steady academic progress as defined by the institution in which the student is enrolled in accordance with the federal Higher Education Act of 1965. The maximum annual award is \$2,000 and the award can be renewed for subsequent years to a maximum lifetime award of \$10,000 per student.

\*Residency: Louisiana resident as of the day the FAFSA is filed and Louisiana is the student's true and fixed domicile as reported on the FAFSA. If student's state of residence on the FAFSA is not reported as LA, but a dependent student claims that a non-custodial parent is a Louisiana resident, or that parents are Louisiana residents living out

the parents, of a residency affidavit.

## **Leveraging Educational Assistance Partnership (LEAP)**

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Leveraging Educational Assistance Partnership (LEAP) grants are available to undergraduate students who have not yet attained a bachelor's degree. The amount of the award may range from a minimum of \$200 to a maximum of \$2,000 per year, based on financial need (the availability of funds is determined by the State of Louisiana each year). To receive a LEAP grant the applicant must have an overall GPA of a 2.000 and be registered as a full-time student and a Louisiana resident.

## **Federal Supplemental Educational Opportunity Grants (FSEOG)**

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Federal Supplemental Educational Opportunity Grants (FSEOG) is available to undergraduate students who have not yet attained a bachelor's degree. The amount of the award may range from a minimum of \$200 to a maximum of \$4,000 per year (based upon availability of funds) and must be given to the neediest UNO students, according to the Estimated Family Contribution as determined by the FAFSA.

## **Academic Competitiveness Grant (ACG) and National Science and Mathematics Access to Retain Talent Grant (National SMART)**

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New federal grants authorized by the Higher Education Reconciliation Act of 2005, established two grant programs for students who major in fields related to computer science, mathematics, engineering, physical sciences, technology, life sciences, and designated foreign languages. Recipients must be full-time students, U.S. citizens, and eligible for federal Pell Grants. Grants for freshman or sophomore students are called Academic Competitiveness Grants (ACG). Grants for junior or senior students are called National Science and Mathematics Access to Retain Talent Grant (SMART).

ACG is worth \$750 for freshman and \$1300 for sophomore students for per academic year. SMART is worth \$4000 for junior and senior students for per academic year.

### **Academic Competitiveness Grant (ACG) Enrollment Requirements**

1st academic year undergraduate students must have completed a rigorous (as recognized by the Secretary of Education\*) secondary school program established by a state or local education agency after January 1, 2006 and, not have previously enrolled in an undergraduate education program.

2nd academic year undergraduate students must have completed a rigorous (as recognized by the Secretary of Education\*) secondary school program established by a state or local education agency after January 1, 2005. Students must have a cumulative GPA of at least 3.0 and earn a minimum of 24 credits at the conclusion of the first year of undergraduate education.

National Science and Mathematics Access to Retain Talent Grant (SMART) Enrollment Requirements

3rd or 4th academic year undergraduate students must be pursuing a major in: computer science, mathematics, engineering, physical sciences, technology, life sciences, and designated foreign languages. (As determined by the Secretary of Education pursuant to regulations), have a cumulative GPA of at least 3.0 as a full time student.

## **Teach Grant Teach Grant Program**

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The College Cost Reduction and Access Act of 2007 created the Teacher Education Assistance for College and Higher Education (TEACH) Grant Program that provides up to \$4,000 per year (\$16,000 total for four-year programs) in grants to students who intend to teach full-time in high-need subject areas for at least four years at

students are also eligible for \$ 4,000 per year (\$ 8,000 total). IF YOU FAIL TO COMPLETE THE FOUR-YEAR TEACHING OBLIGATION YOU WILL HAVE TO REPAY THE GRANT WITH INTEREST!!!

TEACH Grant award amounts: 12 credits or more - \$ 2,000 per semester, 8 credits - 11 credits - \$ 1,500 per semester, 6 credits - 8 credits - \$ 1,000 per semester, 1 credit - 5 credits - \$ 500 per semester

The first TEACH Grants will be awarded to eligible students for the 2008-09 school year. (Sept. 1, 2008 - Aug. 31, 2009). To receive a TEACH Grant you must: Complete the Free Application for Federal Student Aid (FAFSA), although you do not have to demonstrate financial need. Be a U.S. Citizen or eligible non-citizen. Be enrolled in coursework that is necessary to begin a career in teaching or plan to complete such coursework. Coursework that will prepare a student to teach in a high-need area (e.g., math courses for a student who intends to be a math teacher) is acceptable. Meet the following academic achievement requirements Score above the 75th percentile on one of the following college admissions test(s) - SAT, ACT or GRE, Or Graduate from High School with a Cumulative GPA of at least 3.25 AND maintain a cumulative GPA of at least 3.25 each semester you receive a TEACH Grant. Complete TEACH Grant counseling. Sign a TEACH Grant Agreement to serve each year (will be available electronically on a Department of Education web site).

Teach Grant Agreement to Serve. Each year you receive a TEACH Grant, you must sign a TEACH Grant Agreement to Serve that will be available electronically on a Department of Education Web site. The TEACH Grant Agreement to Serve specifies the conditions under which the grant will be awarded, the teaching service requirements, and includes an acknowledgment by you that you understand that if you do not meet the teaching service requirements you must repay the grant as a Federal Direct Unsubsidized Loan, with interest accrued from the date the grant funds were disbursed. Specifically, the TEACH Grant Agreement to Serve will provide that - To avoid repaying the TEACH Grant with interest you must be a highly-qualified, full-time teacher in a high-need subject area for at least four years within eight years of finishing the program at a school serving low-income students. Specific definitions of these terms are included below.

You must perform the teaching service as a highly-qualified teacher. The term highly-qualified teacher is defined in section 9101(23) of the Elementary and Secondary Education Act of 1965 or in section 602(10) of the Individuals with Disabilities Education Act - online at: <http://www.ifap.ed.gov/dpccletters/GEN0414.html>.

You must meet the state's definition of a full time teacher and spend the majority (at least 51 percent) of your time teaching a one of the high-need subject area. Elementary teachers who teach many subjects would not be able to fulfill their service agreement.

High Need Subject Areas include Bilingual Education and English Language Acquisition, Foreign Language, Mathematics, Reading Specialist, Science, Special Education, Other teacher shortage areas identified at the time you begin teaching. These are subject areas (not geographic areas) that are listed in the Department of Education's Annual Teacher Shortage Area Nationwide Listing at <http://www.ed.gov/about/offices/list/ope/pol/tsa.doc>.

Schools serving low-income students include any elementary or secondary school that is listed in the Department of Education's Annual Directory of Designated Low-Income Schools for Teacher Cancellation Benefits at <https://www.tcli.ed.gov/CBSWebApp/tcli/TCLIPubSchoolSearch.jsp>

## Loans

Several loan programs are available to students at UNO. These loan programs operate with the understanding that the student will repay the borrowed amount under the terms of the loan with interest.

Loans are available to students from the Federal Direct Stafford

Federal Direct GRAD Plus program. Parents of dependent students may also apply for the Federal Direct PLUS Loan for parents. Additional information about this program may be viewed at <http://federal-studentaid.ed.gov/>. You may also inquire about other financial aid programs and/or alternative student loans with the Office of Student Financial Aid.

## Federal Direct Stafford Loan Program

**Direct Loans** are low-interest loans for students and parents to help pay for the cost of a student's education after high school. The lender is the U.S. Department of Education (the Department) rather than a bank.

**Direct Loans are:**

**Simple**—You borrow directly from the federal government.

**Flexible**—You can choose from several repayment plans that are designed to meet the needs of almost any borrower, and you can switch repayment plans if your needs change.

**What kinds of Direct Loans are available?**

**Direct Subsidized and Unsubsidized Loans** - Your eligibility for Direct Subsidized and Unsubsidized Loans is based on the information reported on the Free Application for Federal Student Aid (FAFSA). No interest is charged on subsidized loans while you are in school at least half-time, during your grace period, and during deferment periods. Interest is charged on unsubsidized loans during all periods.

Direct Subsidized and Unsubsidized are available to most students who are enrolled at least half-time and who meet certain qualifications. A Direct Subsidized Stafford loan is awarded to students that demonstrate federal financial need. The Direct Unsubsidized Stafford Loan are loan funds in which the student does not demonstrate federal financial need, and the student is responsible for the interest payment on this loan program while the student is in school. Loans are made in amounts up to \$3,500 for freshman, \$4,500 for sophomores, and up to \$5,500 for juniors and seniors. Graduate students are eligible to apply for up to \$8,500 per academic year.

Independent and dependent students may apply for additional Direct Unsubsidized Stafford Loan funds in amounts between \$2,000 - \$7,000 (depending on student's dependency status and classification) and up to \$12,000 for graduate students. There are both annual and aggregate loan limits for these programs.

Students are required to choose their own lender before a loan can be transmitted for guarantee. A Master Promissory Note and an Entrance Interview must be completed to receive the Stafford Loan. Repayment of student loans is not required while the student is enrolled in school at least half-time. The student may choose to defer their interest payment on an Unsubsidized Stafford Loan - this request can be indicated on the Master Promissory Note. Please read all information provided about the terms and conditions of a Stafford Student Loan prior to accepting a loan or signing a promissory note.

**Direct PLUS Loans**—Direct PLUS Loans are low-interest loans available to parents of dependent students and to graduate and professional degree students. Interest is charged during all periods. This program requires a credit check to confirm credit worthiness. Eligible parents can obtain additional funding to help pay the cost of educational expenses for their dependent undergraduate child(ren). It is highly recommended that the student files the FAFSA before applying for this program. The eligibility amount is determined by a Financial Aid Administrator.

**Direct GRAD Plus** is a loan program designed for graduate/professional students to obtain educational financial assistance in addition to the Stafford Loan Program. This program requires a credit check to confirm credit worthiness. A student must complete the FAFSA to be considered and the eligibility amount is determined by a financial aid administrator.

Federal Perkins Loans are available for students in amounts up to \$4,000 for undergraduate students and up to \$6,000 for graduate students (based upon availability of funds) per year. No repayment and no interest are charged as long as the student is attending school in at least half-time enrollment. After the student has left the University, he or she must begin repaying the loan within nine (9) months at an interest rate of five (5) percent per year. The repayment period, depending upon the amount borrowed, might extend up to ten years. Borrowers who teach in certain specified elementary or secondary schools where there is a high concentration of students from low-income families may qualify for forgiveness privileges of up to 100 percent of the loan if they teach there for a period of five years.

## **Student Employment**

Many departments and other areas employ students in part-time jobs on the campus. Such employment must be approved by the Office of Student Financial Aid. All part-time provide basic equity in the rates paid students for similar jobs within the University: the rate paid depends on the nature of the work, the student's classification in college, and his or her skills and previous work experience.

Because of the limited number of student jobs, and since applicants, after enrolling, must be interviewed by the various colleges, no applicant may be assured student employment before reaching the campus.

A student may hold only one part-time job at UNO, and he or she must be enrolled at least half-time during the regular semester, and must be meeting Satisfactory Academic Progress (SAP).

Freshmen should not seek employment unless absolutely necessary, in order to devote adequate time to adjusting properly to studies at the college level.

Students interested in campus employment should contact the various departments on campus immediately after enrolling so that interviews may be arranged with supervisors. You may also view some available part-time job posting at <http://www.career.uno.edu/jobs/index.cfm>.

## **Federal College Work-Study Program**

The Federal Work-Study Program is a campus-based program which provides on-campus and off-campus part-time jobs for undergraduate and graduate students who demonstrate financial need. This self-help aid program allows students to earn money to assist in paying for educational expense, while allowing you the opportunity to gain valuable work experience. Eligibility is based on financial information furnished in the Free Application for Federal Student Aid (FAFSA) which is a part of the Federal College Work-Study Program application. Students are awarded in the order in which the funds are available.

## **Scholarships and Fee Exemptions**

The University of New Orleans has a long-standing tradition of pride in the academic ability of its students. The University has demonstrated its commitment to excellence by establishing a growing number of scholarship opportunities for students. Each year, over \$1.5 million dollars in academic scholarships are awarded to assist students in obtaining one bachelor degree. These scholarships are awarded on the basis of outstanding high school academic records, strong standardized test scores, class rank, and achievements in leadership and community service. Freshmen admitted to the University for the fall semester are granted full consideration for scholarships if they complete an Application for Undergraduate Admissions by the priority deadline of January 15.

A student may use only one fee-exemption or tuition-based scholarship during any semester or summer session, but generally may hold a cash-award scholarship concurrently with a fee-exemption. A student automatically forfeits an award upon failure to meet the

claim the award for any semester, upon resignation during a semester, or upon being dropped from the rolls of the University. Additional information and applications for scholarships and fee-exemptions are available from the Offices of Student Financial Aid and Admissions.

Please note: Meeting the minimum requirements does not guarantee a scholarship. Scholarships are awarded based upon availability and funding. The University of New Orleans reserves the right to modify the policy that governs these awards.

## **Gaining and Maintaining Scholarship Eligibility**

Students must qualify fully for admission to UNO to be eligible for a scholarship award and must remain in good academic and disciplinary standing with the university to retain their scholarships. Scholarship renewal is guaranteed if the student successfully meets the retention requirements as outlined in the scholarship guidelines at the end of the academic year (Fall and Spring semester). The award will automatically be credited to the student's account. Most scholarships are renewable for up to four years or cumulative 120 hours, whichever comes first. Transfer scholarships are renewable for up to two years or cumulative 120 hours, whichever comes first. All coursework earned count toward the cumulative 120 hours. Institutional scholarships cannot be used during the summer session.

## **Freshman Scholarships**

### **Homer Hitt Scholarship**

This scholarship is a full academic scholarship to UNO that provides tuition, residence hall room, board(meal) plan, and a \$500 annual book stipend for students for first-time freshmen. Out-of-state students will also receive an out-of-state waiver. The minimum criteria for consideration is a 30 ACT (1320) and a 3.5 GPA.

### **Freshman Academic Awards**

These scholarship ranges from \$250 to \$1000 per semester. The minimum requirements for the consideration are 23 ACT (1060) SAT and 3.0 GPA. The award must be used for university-related expenses (tuition, dormitory room, meal or book/supplies). Out-of-state students will also receive appropriate level of out of state fee waivers based on academic credentials.

## **Transfer Academic Awards**

These awards range from \$250 to \$750 per semester. The minimum requirements for consideration are 3.5 transfer GPA and at least 60 earned hours (or an earned Associate Degree). Transfer students with less than 60 hours who meet the GPA may be considered for the scholarship at the discretion of the Scholarship Committee. The award must be used for university-related expenses (tuition, dormitory room, meal or book/supplies). Out-of-state students will also receive appropriate level of out of state fee waivers based on academic credentials.

Transfer student shall be defined as having 18 or more semester hours of transferable college course work completed and have no need for remedial course work in English and Math.

## **Adult Opportunity Awards**

Adult students, age 25-64, who meet admissions requirements and who exhibit unmet financial need may be eligible to receive this award. The award ranges from \$250 to \$1,000 per semester. The amount of the award varies based on student need. Students must follow the normal requirements for scholarship consideration and MUST complete the Free Application for Federal Student Aid (FAFSA). This award will be awarded later than other scholarships and may only be used for university-related expense (tuition, dormitory room, books/supplies.) Out-of-state students will also receive appropriate level of out of state fee waivers based on academic credentials.

## Performance and Special Focus Awards

The University of New Orleans provides funding to students who exhibit special talent in the visual and performing arts or who are a part of special designated educational cohort groups. Some of the awards are Ellis Marsalis Scholarship, Harold Battiste Scholarship, Jazz Studies Scholarship, Mary Jane Butera Scholarship, Milton Bush Scholarship, Wee Kee Brody Scholarship, Charles Blancq Scholarship and NOCAA Music Award. These awards vary in value and are awarded through the different focus areas. Out-of-state students may receive appropriate level of out-of-state fee waivers based on their academic credentials. Students wishing to be considered must complete the normal scholarship application process outlined above, but may also be required to submit supplementary information or agree to a performance-related audition.

### **"PRIVATEER" Continuing Student Award**

The purpose of the award is to assist our high academic achievers financially in obtaining one undergraduate degree. Priority consideration is given to those students who did not receive one of the institutional scholarships upon their entrance into the University of New Orleans or have TOPS. Undergraduate students who have earned 24 UNO credit hours consecutively and have a minimum 3.0 cumulative GPA can apply. To apply, students should complete the application through March 15-May 1. The application is posted on the Admissions website.

**HANKS/LOGSDON ENDOWED SCHOLARSHIPS** are offered by Mr. Carl E. Muckley, an alumnus of the University of New Orleans. He established these two scholarship programs in honor of two UNO professors who were instrumental in his educational experience at UNO. The two scholarships, known as the Dr. Donald K. Hanks Endowed Scholarship Fund in Philosophy and the Dr. Joseph Logsdon Endowed Scholarship Fund in History, will provide senior students majoring in philosophy and history with scholarship and book expense support. The grade-point average maintained by each of the potential scholarship recipients and their financial need shall be the major factors in selecting the recipients for the philosophy and history scholarships. Scholarship recipients will be selected by the chairmen of the Departments of Philosophy and History with the assistance of the Dean of the College of Liberal Arts and others as deemed appropriate by the chairmen and the dean. For information, please contact the chairmen of the departments of Philosophy and History.

### **JAMES W. ELLIS HIGH SCHOOL HONOR SCHOLARSHIPS**

**Award:** The cost of one three-credit course. **Eligibility Requirements:** Students must have completed the junior year of high school, be recommended by the high school principal or counselor, have an overall 'B' average for all high school grades, and have a composite ACT score of 25 or higher (28 for full-time).

### PRIVATELY FUNDED SCHOLARSHIPS

Scholarships awarded by outside agencies are administered according to the rules and regulations prescribed by the donors as accepted by the LSU Board of Supervisors.

**POLLY THERIOT BAUDEAN MEMORIAL SCHOLARSHIP FUND** is open to eligible freshman student applicants who intend to major in either Communications or English and who graduated from Higgins or other West Bank Jefferson Parish public high schools. The scholarship provides tuition and book expense support. Potential scholarship recipient(s) shall have maintained at least a 3.0 grade-point average on a four-point scale in high school and have achieved a composite score not lower than 25 on the ACT in order to qualify for scholarship consideration. Scholarship recipients will be selected by the Dean of the College of Liberal Arts with assistance from the Chairmen of the Departments of Communications and English. For information, please contact the Department of Communications.

### **RICHARD AND DARLENE STILLMAN ANNUAL SPEAKING**

**COMPETITION** was established by Professor Emeritus Richard J. Stillman in 1994 in loving memory of his wife. The competition is open to any UNO undergraduate student enrolled in 12 or more semester hours who has a grade-point average (GPA) of 2.0 or better. Contestants must speak for a minimum of 10 minutes but not longer than 12 minutes. Only visual aids and notes are allowed. There are four prizes awarded annually for the Stillman Speaking Competition: 1st prize-\$1,000; 2nd prize-\$500; 3rd prize-\$250; and 4th prize-\$100.

### **AMBASSADOR AWARDS**

These awards are offered to continuing UNO students who wish to participate in UNO's summer study abroad. These scholarships are offered by the Division of International Education. The amount of these awards varies. Awards are granted to students based upon academic standing, financial need, and leadership abilities. Applications can be obtained from the Division of International Education.

### **ELYSIAN ENSEMBLE SERVICE AWARDS IN MUSIC**

A \$300 scholarship to be awarded to students at the end of a semester of participation in either the Classical or the Jazz Division of the Department of Music's Ensemble groups.

### **ARTS SCHOLARSHIPS**

These scholarships are available in Jazz Studies, Classical Music, Fine Arts, Drama & Communications, and Creative Writing. They require either an audition or the submission of a portfolio or manuscript along with a scholarship application. Contact the academic departments for details.

### FEE EXEMPTIONS

**BOARD OF SUPERVISORS' AWARDS** are awarded by Board members to students with at least the average ACT score of the entering freshman class. Each Board member can award up to 20 scholarships. Awards cover the cost of tuition.

**CODOFIL (Council for the Development of French in Louisiana)** exemptions for tuition and nonresident fees are available to those students who are certified as eligible by the director of the CODOFIL program.

**CHILDREN OF DECEASED TENURED FACULTY** exemptions for full tuition are available for the children of full-time, tenured faculty members that have died while serving their tenure.

**CHILDREN OF DECEASED/DISABLED POLICE, and FIREFIGHTERS** exemptions are granted to students whose father or mother was killed or seriously injured in the line of duty. The exemption may cover full tuition, room and board, and/or an allowance for books and supplies.

**CHILDREN OF DECEASED/DISABLED WAR VETERANS** exemptions for full tuition are available to children, aged 16-25, of veterans that were killed or permanently disabled in the line of duty.

**COMMUNITY POLICE AND FIREFIGHTERS FEE EXEMPTION** is offered to sworn, commissioned peace officers who are policemen and state certified firefighters in Orleans parish and its seven neighboring parishes of Jefferson, Plaquemines, St. Bernard, St. Charles, St. James, St. John, and St. Tammany. Exemption covers tuition and some fees less \$111.00 for a 3-credit hour course, up to 6 credit hours. To be litigable student must present Approved Law Enforcement and Firefighter for and a copy of badge (commission) and ID.

**CORDELL HULL FOUNDATION** awards are granted to students who can provide certification of sponsorship by the Cordell Hull Foundation for International Education.

**GOLDEN AGERS** exemptions are available for full tuition for senior citizens aged 65 years and older.

**EMPLOYEE EXEMPTIONS** are available to employees who have been employed for at least one year. The employee is entitled to a tuition exemption for two three-hour courses during the fall/spring and/or one three-hour course during the summer if approved by his/her supervisor and human resource. Student must complete

coursework with a grade of "C" or better ("B" or better for graduate students), and course must be job-related. If the employee leaves the University of New Orleans at his/her own discretion, the exemption will be removed and the employee will be responsible for tuition payment. To apply, the employee should submit the Employee Exemption form.

**ESPOL/VISITING SCIENTISTS** The University of New Orleans and Escuela Superior Politecnica del Litoral (ESPOL) have jointly signed and agreement of cooperation that addressed the establishment of a program through which ESPOL students can enroll at UNO and receive a bachelor's degree in Economics, Business Administration and/or Engineering. It covers the non-resident fee only. A letter of certification from ESPOL must be provided to our Admissions Office and students are required to maintain full-time status.

**INNSBRUCK FRIENDSHIP TREATY** This is an exchange program between the University of New Orleans and the University of Innsbruck for Austrian students. The exemption covers the nonresident fee only. Eligible students provide certification from Admissions, and Center Austria and must maintain full-time status.

**LOUISIANA NATIONAL GUARD STATE TUITION EXEMPTION PRORAM (STEP)** exemptions for full tuition are available to members in good standing in the National Guard. Student must be declared eligible by the National Guard and must be in good academic standing (not on scholastic probation) with the University. Students must submit their National Guard ID before the exemption can be posted to their account.

**ACADEMIC COMMON MARKET (ACM)** The purpose of the ACM program is to share specific academic degree programs located at southern public colleges and universities. This is accomplished through an exchange of students across borders at in-state rates. The exemption covers nonresident fee only and is available to students certified by letter as eligible by ACM. The student must be enrolled full-time to receive the exemption.

**ALUMNI SONS AND DAUGHTERS** exemptions for seventy-five percent of the nonresident fee only are available to students whose parent(s) graduated from an LSU System institution.

**MILITARY PERSONNEL AND THEIR DEPENDENTS** are exempted from nonresident fee. The exemption is available to students who are currently stationed or who have been permanently stationed in Louisiana, and their dependents. It also extends to dependents of military personnel who have been assigned to duty elsewhere immediately following assignment in Louisiana provided that the dependent continues to reside in Louisiana. For more information on fee exemptions, contact the Office of Admissions.

## STATE SCHOLARSHIPS

**Louisiana Tuition Opportunity Program for Students (TOPS)** provides financial assistance to students who enroll in a state college or university. Students applying for a TOPS award must submit the Free Application for Federal Student Aid (FAFSA) before July 1, the state deadline, for consideration. All TOPS recipients must be Louisiana residents, have completed the core curriculum, as specified by the state, have graduated from a public/approved non-public high school, must have enrolled full-time for college no later than 1 year after graduation, not have a criminal conviction, and meet the requirements stated under each of the awards described below:

### **TOPS Opportunity Award:**

**Requirements:** Have a high school grade point average of 2.50 calculated on 17.5 course units, obtained at least the prior state average (currently 2.0) on ACT.

### **TOPS Performance Award:**

**Requirements:** Have a high school grade point average of 3.00 calculated on 17.5 core units, obtained at least a 23 ACT score.

### **TOPS Honors Award:**

**Requirements:** Have a high school grade point average of 3.00 calculated on 17.5 core units, and obtained at least a 27 ACT score.

This information is subject to change. For more information on state scholarships, contact the Louisiana Office of Student Financial Assistance (LOSFA) at 1-800-259-5626 or view on-line at [www.osfa.la.gov](http://www.osfa.la.gov).

## PRIVATELY FUNDED SCHOLARSHIPS

Scholarships awarded by outside agencies are administered according to the rules and regulations prescribed by the donors as accepted by the LSU Board of Supervisors.

**AMERICAN LEGION SCHOLARSHIPS** are available to unmarried sons or daughters of members of Metairie Post 175 and are awarded on the basis of merit. The scholarships are valued at \$400 per academic year. Applications may be obtained from Post 175 Scholarship Committee. (This information is subject to change.)

The **AMOCO PRODUCTION COMPANY SCHOLARSHIP** that is awarded to an upper level business student who has a minimum GPA of a 3.0 and has shown leadership in student organizations. (This is small financial award since it depends on the interest earned on an endowed fund of \$4,600.) **CHEVRON OIL COMPANY** awards one \$500 scholarship each year to a student majoring in accounting.

The **JOAN SHERMAN SCHOLARSHIP** is awarded to the Louisiana resident junior with the highest GPA majoring in business administration. (The amount awarded is typically around \$500-\$750.)

**AIR FORCE RESERVE OFFICER TRAINING CORPS (AFROTC)** offers 2-, 2 1/2-, 3-, and 3 1/2-year scholarships to qualified applicants who are enrolled in the New Orleans area AFROTC program and who are selected in national competition by AFROTC Headquarters. These scholarships provide tuition and fees, textbook costs, and a \$100 a month stipend to each student for his/her use. Information on how to apply can be obtained from the Department of Aerospace Studies, Tulane University, Social Science Bldg., Room 114, phone (504) 865-5394.

**ARMY ROTC** offers two, three and four year scholarships to qualified applicants who are enrolled in New Orleans area colleges and universities and selected in national competition by HQ, US Army Cadet Command, at Fort Monroe, VA. This scholarship provides Full tuition coverage, as well as Book stipend of \$1200 per year (\$600 per semester), spending stipend: Freshman - \$300, Sophomore - \$350, Junior - \$450, and Senior - \$500 respectively per month. Information on applying may be obtained from Tulane University, Army ROTC, 6823 St Charles Avenue, New Orleans, LA 70118, 504-865-5594 or 1-800-777-ARMY and by email at [armyrotc@tulane.edu](mailto:armyrotc@tulane.edu).

**NAVY ROTC** offers two-, three-, and four-year scholarships. Four-year scholarship students are selected annually on a nationwide competitive basis through the Chief of Naval Education and Training (CNET). Three-year scholarship candidates are selected by CNET from non-scholarship (college program) students participating in the NROTC unit. Two-year scholarships are selected from local undergraduate applicants. All scholarships include full tuition, university fees, uniforms, textbooks, and a \$200 per month subsistence stipend. Scholarship students participate in paid summer training periods and receive commissions in the Navy or Marine Corps Reserve as ensigns or second lieutenants upon graduation. They have a minimum four-year active duty obligation after commissioning, followed by four years in the inactive reserves. For information on applying to become a scholarship or college program midshipman, contact the NROTC Unit, Tulane University, 6823 St. Charles Avenue, New Orleans, Louisiana 70118-5698, (504)865-5104. (This information is subject to change.)

For additional information on departmental scholarships and awards, contact the Office of Student Financial Aid.

## **REHABILITATION SERVICES**

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The Division of Rehabilitation is a joint Federal-State Agency that provides assistance to students who are physically or mentally disabled in order to help them become gainfully employed. Assistance in college training can be provided as part of the student's rehabilitation. Any student who feels they have an employment handicap should call the Division of Rehabilitation Services, 838-5180, or write to the Division of Rehabilitation Services, 6620 Riverside Drive, Metairie, LA 70003.

# The Campus

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## Academic Programs, Services and Instructional Units

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### Reserve Officers Training Corps (ROTC) Programs

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The Reserve Officers Training Corps (ROTC) programs are an important means for the education of military officers and are offered as an option to all interested UNO students. Through these ROTC programs, the student may earn appointment as a commissioned officer while earning his or her degree. Hours of ROTC credit may be counted toward graduation in accordance with policies and programs of the individual academic departments of UNO.

#### Air Force ROTC

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The Air Force Reserve Officer Training Corps (AFROTC) offers two- and four-year programs through which a student can earn a commission as a Second Lieutenant in the United States Air Force. The four-year program is divided into two parts: the General Military Course (GMC) for freshmen and sophomores and the Professional Officer Course (POC) for juniors, seniors, and graduate students.

Students in the General Military Course attend a one-hour academic class and a two-hour laboratory each week, while the POC students attend a three-hour academic class and a two-hour laboratory each week. In addition, all students are required to participate in a one-hour physical fitness session twice a week. The GMC classes are held on the Tulane, Xavier, and UNO campuses.

The two-year program begins with a five-week summer training program at an Air Force Base. Upon successful completion of the summer training program, students enter the POC. Interested students should apply for the two-year program no later than February in the spring semester of their sophomore year. Applicants must have four semesters of either undergraduate or graduate work remaining prior to entry into the POC.

Entry into the POC is competitive and is determined in late spring of each year. Prior to entry into the POC, all students in the four-year program must attend a four-week field training session and applicants selected for the two-year program must attend a five-week field training session. Field training sessions are typically held in the summer between the sophomore and junior years.

AFROTC cadets may compete for two- and three-year scholarships that pay tuition and fees, provide a textbook allowance, and provide \$200 per month subsistence allowance. Orientation flights in military

aircraft and visits to Air Force Bases are optional parts of AFROTC training. Also available on a volunteer basis is the opportunity to attend the free fall parachute course or powered glider training during the summer at the Air Force Academy. Cadets may also volunteer for Army Airborne Training or a highly selective language immersion program. The language program selects students with three years of college level language to attend a foreign university for 30 days during the summer to study language and culture. Finally, for those selected for pilot training, the Air Force will pay for 40 hours of civilian flight time with sufficient instruction to receive a private pilot license.

#### Army ROTC

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Army Reserve Officers Training Corps (ROTC) is a comprehensive program of studies through which a student can qualify to be commissioned as an officer in the United States Army, the National Guard, or the United States Army Reserve. Students learn leadership and management skills that will help in any profession in the civilian world. The Army ROTC program consists of a two-year Basic Course, which is open to freshmen and sophomores only, and a two-year Advanced Course. Non-scholarship students participating in the first two years of ROTC do not incur an obligation to the U.S. Army. A variety of Army ROTC scholarships are offered. These provide tuition assistance, a flat rate for textbooks per semester of \$450, and a per month stipend (\$300-freshmen \$350-sophomores,- \$450 juniors, \$500 seniors, up to 10 months per year). Uniforms and military science textbooks are issued without cost to all students. Scholarship students are also paid for the advanced leadership camp they must attend before commissioning.

Summer training is also available for outstanding cadets. Potential training opportunities include Basic Airborne School, Air Assault School, Mountain Warfare School, and others.

Admission to ROTC is conditional on meeting academic, physical, and age requirements as well as the approval of the Professor of Military Science. Physical training is an integral part of the ROTC program. Future Army Officers are held to high standards of physical fitness and appearance.

To be commissioned as an officer, a student must complete either the regular four-year program, a three-year program (whereby the Basic Course is compressed into one year), or a two-year program (requiring completion of the summer ROTC basic camp giving the student credit for the Basic Course). Advanced placement for ROTC training may be given to veterans and to students with previous ROTC experience. In addition to these requirements a student must complete at least one course in the area of military history. That course must be approved by the Professor of Military Science.

## Navy ROTC

The University of New Orleans offers the Naval Reserve Officers Training Corps (NROTC) through a cross-enrollment agreement with the NROTC Unit, Tulane University. There are three general programs through which students can qualify for commissions in the naval service: the U.S. Naval Academy, the NROTC Navy or Marine option programs, and direct accession through Officer Candidate School. The NROTC program offers students the opportunity to earn a commission in the Navy or Marine Corps through the four-year, three-year, and two-year scholarship programs, and through the NROTC College Program. Students matriculating at the University of New Orleans who have not already been awarded an NROTC scholarship may participate in the NROTC College Program and compete for a three-year scholarship. These students are selected from applicants each year by the Professor of Naval Science.

NROTC scholarship program students are selected annually on a nationwide competitive basis. They receive four-year scholarships that include full tuition, university fees, uniforms, textbooks, and a \$200 per month subsistence stipend. Scholarship students participate in paid summer training periods and receive commissions in the Navy or Marine Corps Reserve as Ensigns or Second Lieutenants upon graduation. They have a minimum four-year active duty obligation after commissioning, followed by four years in the inactive reserves.

NROTC college program students are selected from local applicants each year by the Professor of Naval Science. Students may apply to participate in the college program any time during their freshman year. They participate in a four-year naval science program with one paid summer training period (between junior and senior years) and receive commissions in the Navy or Marine Corps Reserve upon graduation. They incur a minimum three-year active duty obligation, followed by five years in the inactive reserves. College program students are furnished uniforms and naval science textbooks and a subsistence stipend of \$200 per month during their junior and senior years. Additionally, four-year college program students may earn a three-year or two-year NROTC scholarship.

NROTC two-year college scholarship program participants are selected from local undergraduate applicants. To apply, students should contact the NROTC unit on campus no later than the middle of the first semester of the sophomore year or the first semester of the third year if in a five-year program. Applicants who are qualified and accepted attend a six-week Naval Science Institute at Newport, Rhode Island, during the summer prior to entering the program. Travel expenses are paid to and from the institute, and candidates receive approximately \$500 in salary, plus meals and lodging during the training period. Upon successful completion of the Naval Science Institute, the students are enrolled in the NROTC program in the fall. Students then receive full tuition scholarships plus \$150 per month in subsistence for the remaining two years of college. Active duty obligations are a minimum of four years of active duty followed by four years in the inactive reserves.

Those students who desire a Navy or Marine Corps commission but do not participate in NROTC programs may apply for the direct accession program that leads to a commission upon completion of degree requirements and Officer Candidate School or Aviation Officer Candidate School.

Requests for additional information should be directed to the Tulane NROTC unit at (504) 865-5104.

## The Washington, D.C. Internship Program

The Washington, D.C. Internship Program is offered in cooperation with The Washington Center for Internships and Academic Seminars in Washington, D.C. Students who have junior-level standing or higher and a grade point average of 2.5 or better are eligible to participate in the program.

The program is conducted in Washington, D.C. and consists of an internship of four and a half workdays per week, a three-hour course one night a week, and a major research paper. Participants can earn 12 credit hours during a fall or spring semester or nine credit hours for a summer session. The Center places applicants in internships of their choice in a governmental agency or department, Congress, the federal court system, an interest group, or other agency in the non-profit, private, or public sector. The Center will also provide housing accommodations, if needed.

Application for the program must be made well in advance of the semester the student plans to participate and must be approved by the UNO program liaison officer. Participants must complete registration at UNO. All but \$100 of tuition costs will be forwarded to the Washington Center for application to the Center program fee. The Washington Center will bill participants directly for remaining program costs.

Any student interested in applying for the program should contact his or her advisor or the program liaison officer on campus as early as possible.

## College of Liberal Arts Centers

The College of Liberal Arts houses several Centers that serve the community and are ancillary to the academic programs. They include:

### Survey Research Center (UNO Poll)

The SRC is an independent academic survey unit offering high quality research services to people inside and outside of the University. We provide training and experience in survey research to graduate and undergraduate students. The SRC is associated with the Department of Political Science.

### UNO Transportation Center (UNOTC)

The UNOTC specializes in various aspects of freight and passenger transportation planning and policy. The UNOTC is an umbrella organization for the National Ports and Waters Institute (NPWI), the Mississippi River Corridor Initiative (MRCI), the Transportation Equity and Evacuation Planning Program, and the Smart Growth and Multimodal Transportation Program. The UNOTC shares a Tier II Federal University Transportation Center designation with LSU's Louisiana Transportation Research Center. UNOTC is associated with the Department of Planning and Urban Studies.

### Cooperative Education

Cooperative education is a program which integrates students' academic study at the bachelor's, master's, and doctoral level with paid, career related work experiences. The program bridges the gap between the classroom experience and the business world at large. The term "cooperative education" reflects the relationship between the educational institution and the employer, both of which provide students with a total, meaningful education. It should not be confused with other work experiences such as internships, externships, or practicum. Co-op is unique because it is a structured program, has specific work schedules, and must include paid work experience related to the student's major field of study.

Students are accepted into the program by meeting certain requirements. Undergraduate students must be full-time, have successfully completed 30 credit hours, have an overall grade point average of 2.5, have a declared major, and be able to commit to the co-op program for at least two semesters. Graduate students must be full-time, have an overall grade point average of at least 3.0, be enrolled in the graduate school, and be able to commit to the co-op program for at least two semesters. Once a student is determined eligible, a match is made based on student career goals and employer needs. Employers are encouraged to interview potential candidates and make decisions based on students' goals and the type of work experience provided. Placement in the co-op program is not guaranteed; however, students

are encouraged to interview with many different employers before accepting an offer.

Students will work one of two co-op schedules: parallel or alternating. On the parallel schedule a student works between 15 and 30 hours per week, and attends school full time. On the alternating schedule a student alternates semesters (including summers) of full-time study with semesters of full-time work. Work eligibility is based on employer evaluation and co-op coordinator decisions. The College overseeing the experience reserves the right to remove a student from the program at any time.

Once students are selected to work with a participating co-op employer, they are required to register for the appropriate co-op class. Though this class does not carry any university credit, it is an important part of the program. Because cooperative education is a federal program, employers are aware of its successful preparation of college students. The addition of this class to a student's transcript is an immediate indicator to potential employers that the applicant has performed relevant work in his or her chosen field of study.

### **UNO Press**

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The mission of the University of New Orleans Press is to support the goals of the University of New Orleans as both a research institution and an urban university by publishing and disseminating scholarship and other serious works that promote public understanding and enrich the culture of the region, nation, and international community.

The Press strives to publish innovative scholarship and creative work in a wide range of academic disciplines, literature, visual arts and music. Ideally, publications contribute to the rich cultural tradition of the New Orleans area and the region, as well as to the intellectual and aesthetic life of academic and general audiences everywhere. The Press is committed, also, to the University's goal of Internationalization, and to that end seeks to publish translations of notable works, scholarly and creative, written in languages other than English. The UNO Press is supported by the University of New Orleans Foundation.

### **National Student Exchange**

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The University is a member of National Student Exchange (NSE) which provides opportunities for students to study for up to one calendar year at another NSE member college or university with non-resident fees waived. With nearly 190 universities from which to choose, students should be able to find a campus with just the right combination of courses, facilities, and environment to meet personal and academic needs and interests. NSE extends beyond the borders of the United States to include U.S. territories as well as Canadian provinces. Students must be at least sophomore level (30 credit hours) with a minimum 2.5 GPA at the time of the exchange. Students meet with their UNO advisors prior to the exchange to assure that all credit completed while on exchange will transfer toward their UNO degree program. Information and applications for the exchange are available at the Interdisciplinary Studies Program Office in room 122 of the Bicentennial Education Center, or in the Registrar's Office in room 112 of the Administration Building. Additional information concerning the NSE Program and all partner universities may be obtained at <http://www.nse.org>.

### **The Office of International Students and Scholars**

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The University of New Orleans currently hosts around 600 international students, faculty, and staff from about 90 countries. The Office of International Students and Scholars provides comprehensive immigration advising, programming, and support services to all international students and faculty and their dependents. The office works with faculty and administrators to build friendship agreements with foreign universities, and assist international student organizations in planning programs such as International Night and cultural tea activities.

### **UNO Jefferson Campus**

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The UNO Jefferson Campus, located in the heart of Metairie at 3330 North Causeway Boulevard, is UNO's off-campus center in Jefferson Parish. A variety of credit classes ranging from business, education, science, and liberal arts are offered at this location. Telecommunication linkages with the main campus allow students to enroll in live courses offered on the Lakefront Campus and viewed simultaneously at the Jefferson Campus.

To keep up with today's changing technology in computers and software applications, the Jefferson Campus also houses state-of-the-art microcomputer laboratories. The Jefferson Campus is also used for meetings and conference services. The 21 plus spacious classrooms and conference areas are used for seminars and workshops for the UNO community, outside organizations, and non-profit community groups. Easy access and convenient parking make the Jefferson Campus a practical educational asset to the Metairie area.

### **UNO on the Northshore**

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UNO conducts classes at the John C. Stennis Space Center in Hancock County, Mississippi. UNO is affiliated with the Stennis Center for Higher Learning which facilitates undergraduate and graduate education; as part of the Center, UNO and Mississippi institutions of higher education offer a variety of curricula in science, engineering, social science, business, and industrial technologies. The UNO office at Stennis coordinates educational courses for students and advises those seeking graduate and undergraduate degrees. Course work for the master's degree in applied physics, computer science, engineering, geography, mathematics, earth and environmental sciences, and engineering management are offered at Stennis. Also, a Ph.D. in Engineering and Applied Science is available. Students study and conduct research on site with a strong complement of science and engineering courses.

Other Northshore locations are utilized periodically. The locations include Covington, Mandeville and Slidell.

### **Division of International Education**

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The mission of the Division of International Education is to assist the University in its continuing efforts to enlarge its global presence, and to contribute to global understanding by developing and supporting opportunities worldwide for students, faculty, staff, and the general public. An education in the 21st century is incomplete unless students understand and experience the effects of globalization on economic, political, and cultural life. The Division promotes summer study abroad; manages international student exchange; eases entry of international students into the University; serves international students and scholars; and manages low-residency study abroad sites. The Division is the home to the Office of International Study Programs, the International Student Exchange Programs, the Office of International Students and Scholars, and the Intensive English Language Program.

### **The Office of International Study Programs**

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This office currently offers 8 programs of study each summer in six different countries. The International Summer School in Innsbruck, Austria is the flagship program. In operation since 1976, this program annually enrolls 250 students from colleges and universities throughout the United States, along with 50 guest students from the University of Innsbruck. Offering more than 50 courses, all taught in English, in a multitude of disciplines, this program is one of the largest American summer schools abroad and enjoys a reputation as one of the finest in Europe. In addition to Innsbruck, opportunities are offered in Costa Rica, the Czech Republic, France, Italy, Japan and Mexico. Summer programs regularly enroll both college students and adults. Each program has a distinct personality. Program durations range from four to six weeks and accommodations range from home-stays, to dormitories,

to hotels. For example, the program in Mexico is designed for writers, while the program in Rome, Italy is focused exclusively on fine arts. The program in Costa Rica offers home-stays, Spanish language, and other classes that take advantage of the rich landscape and biodiversity of Central America.

The office also administers the Academic Year Abroad Program (AYA) at the University of Innsbruck. Students are offered intensive study in the German language and Central European history, economics, and politics in a spectacular Alpine setting. AYA students are served by a resident academic director and take part in numerous activities and field trips throughout their course of study.

### International Student Exchange Programs

The International Student Exchange Programs (ISEP) administers bilateral student exchange agreements with universities in Australia, Brazil, Chile, Costa Rica, the Czech Republic, England, France, Germany, the Netherlands, Spain and Turkey. Each year, a number of UNO students take part in exchanges on a semester or yearly basis.

### The Intensive English Language Program

The Intensive English Language Program (IELP) is a full-time, non-credit, pre-academic program which fosters cross-cultural exchange by providing English as a Second Language (ESL) instruction to both international and U.S. resident, non-English speaking students in preparation for study at UNO and other universities and colleges in the United States. IELP offers five 8-week sessions year-round with 20 hours of classroom instruction each week. Admission into the IELP does not guarantee admission to UNO; however, the IELP is designed to provide a transition into the regular university curriculum upon successful exit from the program of intensive study. The IELP issues an I-20 visa document to eligible nationals who are admitted. Tuition and fees include classroom instruction, orientation, special events and field trips, and access to most campus facilities.

### Critical Languages Program

The Critical Languages Program (CLP) provides the opportunity for self-directed students to learn less-commonly-taught languages for personal enrichment and/or college credit at the undergraduate level. Students may take these courses for credit or non-credit. The language offerings in CLP would typically not be offered at UNO due to their highly specialized nature and typically low enrollments. Using the self-instructional language program model developed by the National Association of Self-Instructional Language Programs (NASILP), the University is able to offer such rarely taught languages. This model emphasizes self-directed learners grouped into very small classes with native-speaking tutors who provide oral/aural as well as reading and writing practice for students in this classroom setting. This provides an "immersion" environment for the students, while guiding them through the structured program outlined for each language. CLP typically follows the UNO academic calendar and offers three-credit hour courses at varying levels of instruction. In addition, special non-credit courses may be designed for students (or groups of students) with language needs outside of those served by credit courses. All courses are set up on an individual basis through CLP and must be approved by the Department of Foreign Languages. Enrollment in all cases is subject to the University's ability to locate native speakers and professional, qualified persons capable of both monitoring and evaluating the students' work.

### Academic Common Market

The University of New Orleans is a participant in the Academic Common Market. A current list of applicable programs listed in the Academic Common Market Inventory can be found at <http://www.sreb.org>.

## University Library

The Earl K. Long Library, situated in the heart of the campus, provides a wide array of resources and services to support the learning and research needs of the campus community. The four story building houses collections, group and individual study spaces, electronic classrooms, and computer facilities. Over 100 computers are available in the 1st Floor Learning Commons, along with research and technical assistance. Students may borrow a laptop from the Circulation Desk or bring in their own to access the Library's wireless network. A coffee shop and comfortable seating in the adjacent Student Reading Lounge enhance the study environment.

The Library's extensive collections and research tools provide in-depth support for faculty and student research from any computer 24/7. The automated library system is part of LOUIS, the Louisiana Library Network consortium, and provides access to the holdings of 47 academic libraries around the state. The Library maintains over 13,000 current journal subscriptions, as well as access to over 50,000 electronic journals, more than 75,000 electronic books, and numerous research databases in a wide variety of disciplines.

Specialized collections include Federal Documents, Louisiana and Special Collections, and the Multimedia Collection. The Library is a U.S. Federal Documents Depository and receives approximately 90% of federal government publications, most of which can be checked out by UNO students and faculty. The Louisiana and Special Collections Department contains books, city and state documents, maps, local city directories and other material related to Louisiana and New Orleans, as well as original archive and manuscript collections, rare books, the UNO Authors Collection, and original copies of all of the university's theses and dissertations. The Multimedia Collection provides material in non-print formats such as microfilm and microfiche, videos, DVDs, compact disks, audiocassettes, and even vinyl recordings. The UNO Student Government funds a collection of popular movies on DVD available for student check-out.

When the Library does not own materials needed by students and faculty, they can be obtained from libraries around the state or around the world through the Interlibrary Loan Service. The collection is also enhanced through reciprocal borrowing, whereby graduate students and faculty can apply for a LALINC card to borrow materials directly from other academic libraries in Louisiana.

Reference and research assistance is available in person, by phone, and through the Library's website. Students are encouraged to make appointments with subject specialists for in-depth personal research consultations. Faculty can request library instruction sessions tailored to their course content to improve students' information literacy competencies and disciplinary research skills.

The Library's website, at <http://library.uno.edu>, provides further information and links to library resources and services and is accessible 24 hours per day.

### Student Retention

A series of programs and offices interact to develop and conduct programs that support and promote student access and retention. Collectively, these facilitate the retention of students in the University from initial enrollment through graduation.

**NEW STUDENT ORIENTATION** is an informative campus program for all new freshmen, transfer, and adult students. The program, sponsored by the Office of Admissions and New Student Orientation, is designed to help ease new students' adjustment to the University of New Orleans. The program addresses new student concerns and questions and provides a comfortable and satisfying transition to university life. The program allows new students to register for classes. Our freshmen program now includes an overnight component, allowing incoming students the opportunity to experience on campus living.

**UNIVERSITY SUCCESS 1001** is a one credit, letter graded course for first year students to provide them with valuable information about ways to be successful students in college and assists them in their transition into higher education. UNIV 1001 covers topics including time management, study skills, note taking, learning styles, communicating with faculty, test taking, and university resources. UNIV 1001 also incorporates a service learning and New Orleans culture component to provide students with a well-rounded first year experience.

The **LEARNING RESOURCE CENTER** offers academic support services to all students on campus. Together with The Writing Center and the Math Tutor Center, the LRC provides tutoring in writing, math, sciences, foreign language, and other subjects. The center has a 19 station computer lab and a media library of videotapes and software that support several UNO courses. All services are free.

The **DEVELOPMENTAL MATHEMATICS PROGRAM** is responsible for teaching Developmental Mathematics 106 and Developmental Mathematics 107. These courses prepare students for university-level mathematics sequences.

**PROJECT ACCESS:** Educational Talent Search Program (ACCESS) is federally funded through the U.S. Department of Education. ACCESS provides specific services and activities to 600 participants from the target areas of Jefferson and Orleans Parishes. The program's mission is to serve young people with disabilities, ages 11 to 27. This early intervention program helps individuals from low income and potential first generation families to better understand their educational opportunities and options. ACCESS identifies qualified youth with potential for education at the postsecondary level; encourage them to complete secondary school; assist eligible participants to enter a program of postsecondary education; and to encourage persons who have not completed education programs at the secondary and postsecondary level to re-enter these programs. In addition to counseling, participants receive information about disability accommodations, college admissions requirements, scholarships and various student financial aid programs.

**Orleans-Jefferson Educational Talent Search Program (OJETS)** is federally funded through the U.S. Department of Education. OJETS provides specific services and activities to 600 participants from the target areas of Jefferson and Orleans Parishes. The program's mission is to serve young people in grades 8-12 and young adults up to age 27. This early intervention program helps individuals from low income and potential first generation families to better understand their educational opportunities and options. OJETS identifies qualified youth with potential for education at the postsecondary level; encourage them to complete secondary school; assist eligible participants to enter a program of postsecondary education; and to encourage persons who have not completed education programs at the secondary and postsecondary level to re-enter these programs. In addition to counseling, participants receive information about college admissions requirements, scholarships and various student financial aid programs.

**St. Tammany Educational Talent Search Program (STETS)** is federally funded through the U.S. Department of Education. STETS provides specific services and activities to 600 participants from the target area of St. Tammany Parish. The program's mission is to serve young people in grades 6-12 and young adults up to age 27. This early intervention program helps individuals from low income and potential first generation families to better understand their educational opportunities and options. STETS identifies qualified youth with potential for education at the postsecondary level; encourage them to complete secondary school; assist eligible participants to enter a program of postsecondary education; and to encourage persons who have not completed education programs at the secondary and postsecondary level to re-enter these programs. In addition to counseling, participants receive information about college admissions requirements, scholarships and various student financial aid programs.

**Project PASS:** Special Upward Bound (PASS) is federally funded through the U.S. Department of Education. PASS provides specific services and activities to 50 participants with disabilities from the target area of Orleans Parish. The program's mission is to help students with disabilities, in grades 9 through 12 who are on a diploma track, to complete high school, to enter a postsecondary education program and to graduate from college. This college preparatory program helps individuals from low income and potential first generation families to better understand their educational opportunities and options. Participants receive instruction in literature, composition, mathematics, and science on college campuses after school, on Saturdays and during the summer. Students who have graduated from high school are given a college experience through a summer bridge component. In addition to counseling, participants receive information about disability accommodations, college admissions requirements, scholarships and various student financial aid programs.

**STUDENT SUPPORT SERVICES** is a federally funded grant program designed to provide personal, academic and career counseling to a limited number of eligible undergraduate students enrolled at the University of New Orleans. An eligible participant must be first generation, meet federal income guidelines and/or have a documented disability.

The **UNO CLASSIC UPWARD BOUND PROGRAM** is a federally funded TRiO Program under the auspices of the U. S. Department of Education. The program serves eighty-six (86) high school students from low-income families and/or families in which neither parent holds a bachelor's degree. During the academic and summer components the Upward Bound students participate in an academic program that includes academic classes, tutoring, counseling, college tours, and cultural enrichment activities. Students who complete at least two years in the program before graduation from high school also benefit from participation in the Summer Bridge Program, in which students' fees for enrollment in two UNO college courses are funded by Upward Bound.

The **UNO WRITING CENTER** offers free help five days a week to students who want to improve their writing. Students who come to the Writing Center work with tutors in one-on-one sessions on any kind of writing problem- brainstorming, researching, organizing, and developing ideas for their papers, as well as editing their papers for grammar and stylistic problems. The Writing Center welcomes papers written in all disciplines, not just in English.

## Conference Services

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The UNO Office of Conference Services was established in 1989 to provide support for educational conferences, seminars, and workshops brought to the University by members of the UNO faculty and staff as well as those sponsored by the New Orleans community. The primary goal of this office is to offer a system of services including the organizational and logistical planning necessary to host a conference. The services provided by the office include collaborating with faculty for program/event planning, financial management, marketing and promotional strategies, food and beverage menu selection, and event coordination. The office works with local hotels and university and community support services to accommodate various conference needs. The office also coordinates such activities ranging from registration to program evaluations and accounting.

The Lindy C. Boggs International Conference Center opened in May 2002. Located on Lake Pontchartrain adjacent to the University of New Orleans' main campus, the center offers 20,000 sq. feet of flexible educational meeting and conference space supported by state of the art telecommunications systems, full service caterers, nearby hotel space and free parking. Meeting sizes from 15 -300 can be housed in the Center's 17 meeting rooms.

## University Computing and Communications (UCC)

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University Computing and Communications (UCC) is a comprehensive Information Technology service organization providing support for Academic Computing, Administrative Computing, Instructional Media & Technology, Servers and Networks, User Training and Support, and Telephony.

The University of New Orleans operates a complex array of multi-vendor UNIX and Windows servers connected to thousands of workstations over a high speed local and metropolitan area network. The following is a brief description of the University's major computing services and systems managed by UCC:

**ADMINISTRATIVE SYSTEMS** UNO's HR, Student, and Financial systems from PeopleSoft run on an array of Windows 2000 servers. PeopleSoft systems may be accessed via the campus network, and the Web.

**NETWORK SYSTEMS** The campus network consists of a multi-gigabit Ethernet-based backbone network interconnecting all main campus buildings and remote campus sites to provide data communications to meet campus academic and administrative needs. The network provides support for over 5000 wired and wireless clients, access to Internet, and to the advanced research networks, Internet2 and the National Lambda Rail.

**TELEPHONE SERVICES** The UCC provides for enterprise-wide telephone services supporting local, long-distance, and specialized communications needs for the campus.

**MESSAGING AND EMAIL** All enrolled students, faculty, and staff are provided mailboxes on our collaborative mail system. This system provides calendaring, mail, and other features through a rich Web interface as well as providing connections for Outlook email clients and legacy mail clients using POP, SMTP, and IMAP. The UNO messaging system also supports ActiveSync providing mail and calendaring services to cell phones and PDAs. The system provides automated distribution lists that are used to provide news and alerts. In addition, UNO uses an off campus notification system that can provide emergency alerts to students cell phones and PDAs in case of a campus emergency.

**HELP DESK AND DESKTOP SUPPORT** UCC operates Help Desk and Desktop Support units that provide hardware and software support services for the UNO community. These units provide the University with a helpful, single point of service for peripherals, desktop software and hardware, and UNO's main computing systems including Windows, Apple, PeopleSoft, WebSTAR, Microsoft Office, SAS, SPSS, Mathematica, Matlab, PPP, email, SharePoint, Blackboard, anti-virus software, and computing account support. The Help Desk may be reached by telephone at 280-HELP (280-4357), via e-mail at [helpdesk@uno.edu](mailto:helpdesk@uno.edu), or in person in room IOIR of the Computer Center.

**LEARNING MANAGEMENT SYSTEM** UNO uses Blackboard to create Web-assisted learning materials. Blackboard allows instructors to augment in-class instruction by providing course materials, handouts, and multimedia presentations from an easy-to-use interface. Additionally, Blackboard has features that accelerate asynchronous class discussions, chat groups, collaboration, and student and faculty interaction. UNO will be moving to the Moodle LMS in the Spring of 2011.

**MULTI-MEDIA SERVICES** Media Resources provides services and support for AV and classroom presentation systems. Media Productions provides media production services for telecourses and distance education. It also manages the electronic, compressed video and access grid classrooms.

**ID CARDS** The Identity management team produces identification cards for students, faculty and staff. These devices are used for card access to selected buildings, dormitory rooms, Library borrowing privileges, and food services for students electing a prepaid food plan.

**FACULTY AND STAFF TRAINING** University Computing and Communications maintains a resource center dedicated to meeting the

technology needs of the UNO Faculty and Staff. The FSRC offers 17 PC computers with CD/DVD burners, 2 iMac computers, a scanner, 1 Black and White Laser printer and 1 Color Inkjet printer.

**ACCOUNTS** All students, faculty, and staff receive accounts for access to computers and the following computing systems: Email, Local Area Network (LAN), Blackboard (UNO's E-Learning Management System), SharePoint and the WebSTAR student system. All accounts share the same user id and password.

**STUDENT COMPUTING LABS** The UNO technology fee provides students with a rich variety of computer labs for learning. Two types of facilities exist. Student Open Labs are general use facilities that are available to any enrolled UNO student on a drop-in first-come, first-serve basis. Departmental Labs are restricted facilities dedicated for use by students enrolled in specific classes.

**TRAINING WORKSHOPS** UCC offers free training to UNO faculty and staff in the areas of PeopleSoft, SharePoint, Blackboard, and Microsoft applications. Training workshops are available every semester.

**STATISTICAL COMPUTING** As a Carnegie Research University, UNO is committed to the process of discovery. To assist graduate students and researchers with quantitative analysis, UNO supports SAS and SPSS for statistical computing. The university has a site license for these packages, and they are available in all student open labs managed by University Computing and Communications.

**MATHEMATICAL COMPUTING** To assist students and researchers, UNO licenses Mathematica and MATLAB. Mathematica integrates mathematical computing, visualization, and a powerful language to provide a flexible environment for technical computing. MATLAB is the tool of choice for scientific research in physics and engineering analysis and modeling, from simple calculator operations to large-scale programming and interactive document preparation. MATLAB and Mathematica are available on all student open labs managed by University Computing and Communications.

## UNO Women's Center

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The UNO Women's Center was created in 1985 to serve the diverse needs of the women in the university and to affirm the lives of women at the university and in the communities of New Orleans. Located in room 201 of the Earl K. Long Library, the center serves as a referral base and support source for campus and community women. The center offers scholarships, book awards, and a range of programming throughout the year, including workshops on preventing violence against women, educational speakers, and discussion/support groups. The Women's Center also houses a 900 book library, and computer cluster, and it maintains a broad base of periodicals and miscellaneous print materials that pertain to women. Students, staff, and faculty are welcome to drop by the center, which is normally open on weekdays from 9 a.m. to 5 p.m. For information on programming, services, etc., or to schedule additional hours on evenings or weekends, call (504) 280-7285, or go to our website at <http://wmcn.uno.edu>.

# Research and Academic Centers and Institutes

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The Advanced Materials Research Institute (AMRI) is a multidisciplinary research institute that provides a unique opportunity to develop novel research ideas that ultimately involve the government, private, and academic sectors in the conception and development of research programs. The interactions with corporate laboratories provide a synergistic pathway that promotes technology transfer and private sector involvement in the operation of AMRI.

The Center for Austrian Culture and Commerce (CA) was founded in 1997 to administer the entire partnership agenda with the University of Innsbruck. It directs the student and faculty exchanges, organizes regular lectures on campus and annual scholarly conferences in the humanities, social sciences and sciences, and publishes the academic journal "Contemporary Austrian Studies." It also publishes two book series: "Studies in Austrian Politics and Culture" (Transaction Publishers) and "TRANSATLANTICA" (StudienVerlag Innsbruck). CA is one of three Austrian Studies Centers in North America (next to the University of Minnesota and the University of Alberta in Canada). It is recognized as a major center for Austrian Studies by the Austrian government and receives regular support from the Ministries for European and International Affairs and the Science Ministry for its conferences and publications and with the funding of an annual dissertation fellowship for an Austrian student to come to UNO. Its work in trans-Atlantic academic exchanges has also been recognized by the Austrian Marshall Plan Foundation in Vienna with the funding of the Marshall Plan Chair in Austrian and European Studies to foster European Studies and international on the UNO campus. CenterAustria is promoting the study of Austria and Europe in Louisiana and the Gulf South.

The Center for Hazards Assessment, Response and Technology (CHART) is an applied social science hazards research center at The University of New Orleans that collaborates with Louisiana communities emphasizing coastal communities including the City of New Orleans. The focus of UNO-CHART is to support Louisiana community sustainability in light of natural, technological, and environmental risks to which the state is vulnerable. The Center undertakes applied social science research to understand ways in which Louisiana communities and the coastal region respond to these risks, assists in the development of best practices for reducing risks and helps in implementing these practices to achieve comprehensive community sustainability. The second focus of UNO-CHART is the reverse dynamic—the impacts of community activity – social/political/economic—on the ecosystems within the coastal and southeast regions of the state. CHART was founded in 2001 and is comprised of a multidisciplinary group of faculty, staff, and graduate research assistants representing

various backgrounds including sociology, political science, public administration, planning, urban studies, engineering and geography. Currently, CHART has projects that address repeated flood loss, disaster mitigation planning, developing of community resiliency assessments, storm mitigation efforts by coastal communities, scientist/community collaboration on ecosystem health and hurricane evacuation of vulnerable populations.

The Center for Urban and Public Affairs (CUPA) is a multidisciplinary, non-partisan center for urban research and planning at the University of New Orleans that has produced and disseminated rigorous applied and scholarly urban research for over 20 years. The mission of helping to facilitate and understand healthy, sustainable urban communities has been made all the more important as the Gulf Coast region recovers from Hurricane Katrina. CUPA has built tremendous expertise in the challenges and opportunities that lie at the heart of rebuilding New Orleans and the Gulf Coast Region. This expertise is being put to use in a wide variety of projects of local and national significance.

The Edward G. Schlieder Urban Environmental Systems Center (formerly the Urban Waste Management and Research Center) is a Center of Excellence in the College of Engineering that was established in 1990 by the Louisiana Board of Regents to address urban environmental issues. The Center's research activities are associated with urban environmental issues such as municipal solid waste, wastewater, urban runoff, surface and ground water quality, and air quality. To that end, the Center's project activities over the period of funding included and involve investigators from UNO as well as other universities throughout the country, and where possible, other disciplines. The Center's objective is to provide research that will develop the technologies necessary to further the state-of-the-art, and provide a source of trained graduate engineers and scientists. SUESC has operated based on funding provided by research grants and contracts with institutions such as the US EPA, SPAWAR, Jefferson Parish, City of Kenner, and others. The US EPA funded a twelve-year research program (EPA Grant #GR825427), from May 1990 through May 2002, with the participation of faculty primarily from UNO and Louisiana State University.

The Eisenhower Center for American Studies supports the Department of History graduate program in diplomatic-military history with an emphasis on public history employment after graduation. This support comes in the form of special speakers and events designed to increase interest in military history and contemporary national security affairs. The Eisenhower Center is the university's principal agent for joint programs with the National World War II Museum,

founded by the late Stephen E. Ambrose, a UNO history professor and author of international acclaim. The current director of the Eisenhower Center, Allan R. Millett, serves as the senior military advisor to the president of the museum. He was instrumental in negotiating the endowment that created the World War II lecture series funded by Major General Raymond E. Mason, Jr., USAR (Retired). The center director and his research assistant work closely with the museum's research and educational departments. The director ensures university contact with the international military history community by serving as Vice President of the International Commission of Military History, a forty-nation consortium chartered by UNESCO.

The **Energy Conversion and Conservation Center (ECCC)** was established in 1996 by legislative act of the State of Louisiana. The ECCC conducts research on local, national and international projects that aim to improve the quality of life by solving technical problems associated with power generation, energy conservation and efficiency.

The **Hospitality Research Center** at the University of New Orleans is a collaborative effort of the School of Hotel, Restaurant and Tourism Administration (HRT) and the Division of Business and Economic Research (DBER). Each faculty member of the School of HRT has broad experience in the tourism and hospitality industry and has extensive academic preparation. Working together, in cooperation with the professionals in the Division of Business and Economic Research, the UNO HRT/DBER research program is consistently recognized for research productivity in the hospitality field. The function of the Hospitality Research Center is to provide a variety of research services to hospitality, travel and tourism organizations. Selected recent projects include Louisiana Tourism Conversion Study, Special Events Impact on the Economy, Tourism Industry Salary Surveys and Visitor Profiles.

The **Ethel and Herman Midlo Center for New Orleans Studies** promotes understanding of New Orleans history, culture, politics, and public policy issues through sponsored events and coordination of interdisciplinary courses and seminars at the University of New Orleans, facilitating the writing of new general histories of New Orleans and Louisiana, hosting conferences that enable scholars to share their research findings about New Orleans, serving as an institutional home for international scholars, and as a repository for research materials about the culture and folklore of the City. Since its inception, The Midlo Center has sponsored a series of high profile outreach projects that have helped to circulate this information back into the community that it serves while successfully applying for a range of research grants to expand knowledge on the city and people of New Orleans.

The **Greater New Orleans Center for Information Assurance (GNOCIA)** is dedicated to research and instruction in the broad area of Information Assurance (IA). The GNOCIA has several interrelated missions, including facilitating interaction between government, industry, and academia to perform cutting edge research in IA, attracting federal funding to support these research efforts, attracting and retaining highly-qualified students, staff, and faculty, and workforce development through creation of specialized training opportunities. The Center also develops outreach programs to increase awareness of opportunities in IA in a number of communities, from high school students to entrepreneurs. Finally, the GNOCIA will provide a development environment where, in collaboration with industry and government agencies, research ideas in IA are grown into real-world security tools to be used in daily practice. The primary research agenda of the GNOCIA includes development of state-of-the-art, high-performance tools for digital forensics investigation, reverse engineering, techniques for analysis and mitigation of malware, secure programming, and research in spatio-temporal information systems for homeland security. The GNOCIA laboratories include state-of-the-art computer equipment running a wide variety of open source and commercial software for digital investigation, reverse engineering, and the analysis

of malicious software, in addition to specialized equipment such hard drive analyzers and clean room facilities.

The **Hospitality Research Center** at the University of New Orleans is a collaborative effort of the School of Hotel, Restaurant and Tourism Administration (HRT) and the Division of Business and Economic Research (DBER). Each faculty member of the School of HRT has broad experience in the tourism and hospitality industry and has extensive academic preparation. Working together, in cooperation with the professionals in the Division of Business and Economic Research, the UNO HRT/DBER research program is consistently recognized for research productivity in the hospitality field. The function of the Hospitality Research Center is to provide a variety of research services to hospitality, travel and tourism organizations. Selected recent projects include Louisiana Tourism Conversion Study, Special Events Impact on the Economy, Tourism Industry Salary Surveys and Visitor Profiles.

The **Merritt C. Becker Intermodal Transportation Policy and Implementation Center (ITPIC)**, housed in UNO's Department of Planning and Urban Studies, is supported by a planned gift of \$1.3M by Mr. Merritt Becker of New Orleans. Its creation stems directly from UNO's long history of participation in the development and implementation of Louisiana's Statewide Intermodal Transportation Plan and its continuing role in the update of that plan. ITPIC addresses the intermodal transportation research and training needs of the transportation industry. Metropolitan New Orleans is one of the major intermodal transportation hubs in North America. Six trunk line railroads, the nation's largest agglomeration of port infrastructure, and the mighty Mississippi River, gateway to the nation's heartland, bespeak Louisiana's critical role in the nation's transportation driven economy. Louisiana's transportation industry generates thousands of jobs and hundreds of millions of dollars in economic benefits to our state. ITPIC is uniquely positioned to support this intermodal transportation hub.

The **National Center for Advanced Manufacturing (NCAM)** is a partnership of government, academia and industry fulfilling the technology needs of aerospace and commercial markets. The NCAM-Louisiana Partnership was formed between NASA, the State of Louisiana, and the University of New Orleans. The center includes a consortium of seven universities (UNO, Louisiana State, Mississippi State, Tennessee Tech, Texas A&M, U.S. Naval Academy and Virginia Tech) led by UNO in advanced manufacturing research with the focus on the applicability of composite and metallic materials to advanced manufacturing processes. The technical areas involved include: nondestructive testing, bond quality, large structures evaluation, joints and bonding, imbedded sensors, damage tolerance and repair of advanced materials.

Formed in July 2008, the **New Orleans Jazz Institute (NOJI)** links UNO's strengths in jazz education with professional practice. It serves to promote creative excellence and best practices in Jazz composition, performance, scholarship, importation, exportation, and education. The goals and objectives of the New Orleans Jazz Institute are directly reflective of the University of New Orleans' mission, as well as its standard of excellence in the areas of: academic research, music education, new creative works and the enrichment of the cultural and business infrastructure of the New Orleans community. NOJI serves as a community and capacity building organization for New Orleans' Jazz Industry and creative community, bolsters the activities and scope of UNO Jazz programs, and acts as an ambassador for New Orleans Jazz all over the world.

The **UNO Pontchartrain Institute for Environmental Sciences** is a partnership of scientists and educators that combines rigorous scientific analysis with education, outreach, and planning to develop practical solutions to environmental challenges of the Pontchartrain Basin, the Gulf of Mexico, and similar coastal ecosystems in the United States and elsewhere in our world. The Institute brings together the technical expertise and understanding needed to address issues such as water quality, critical habitats, biodiversity and coastal restoration

strategies. Additionally, staff work with academic institutions, government agencies, and environmental organizations to provide information critical to preserving and restoring the environmental quality of the Pontchartrain Basin.

The Robert E. Nims Center for Entertainment Arts is a commercial motion picture production complex and offers professional/academic support to the UNO's Department of Film, Theatre and Communication Arts. Such major Hollywood features as "The Runaway Jury," "Ray," "Deja vu," "All the King's Men" and "The Curious Case of Benjamin Button" were shot at the Center. The Nims Center StudioPlex also offers professional "real world" film industry internship opportunities and specialized workshops to UNO's undergraduate and graduate film production students. This full-time production center includes four sound stages, Avid and Final Cut Pro editing suites, ADR recording studios, HD/Dolby screening room and a professional motion picture processing laboratory operated by Cineworks Digital Studios of Louisiana. The combined resources of UNO's film production curriculum along with Nims Center's professional internship and a film-related business start-up program have been instrumental in launching real industry careers for many UNO film production graduates.

The Survey Research Center (SRC) exists to serve the research, teaching and service needs of the University and of the larger community. The SRC promotes socially significant research with public policy implications as well as research of theoretical or academic interest. Since 1985, the Center has collected information about public opinions, beliefs and values on a wide range of social, economic and political issues. In that time it has gained a reputation for accuracy and integrity in public opinion research.

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# Student Life

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The University of New Orleans (UNO) recognizes the important educational role that involvement in student life provides for students. There is a commitment to focus on the development of the whole student by extending the classroom experience through extracurricular activities. By becoming involved on campus, you have an opportunity to develop your intellectual, social, leadership, communication and recreational skills, and these skills can assist you both personally and professionally. The Division of Student Affairs is committed to sponsoring and promoting activities which complement your educational experience, and the following information is only a sampling of the offerings available. We encourage you to explore all of the aspects of student life at the University of New Orleans.

## Student Government

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All regularly enrolled students are members of Student Government (SG), which provides an opportunity for each student to participate in the general community affairs of the University. SG members assume the responsibilities of self-government consistent with the responsibilities and policies of the University administration. In addition, SG maintains a variety of services such as forums for students to express ideas and concerns with administration and free fax services for students. SG also funds other activities and services on campus such as student organization programs, and limited academic travel funds for undergraduate and graduate students.

## Student Activities Council

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Student Activities Council (SAC) is the university's official student programming board on campus. The purpose of SAC is to provide educational, cultural, social, and entertaining activities for the UNO community. They are responsible for the planning and implementation of major activities on campus such as the Welcome Back Luau, Fall Concert, the Drive-in Movie, Homecoming Festivities, the end of the year crawfish boil, and much more. With student input, SAC comes up with new, fresh events every year.

## Student Organizations

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Student organizations are a vital part of undergraduate and graduate experience at the University of New Orleans. With approximately 130 recognized student organization at UNO, students have been able to take advantage of the many opportunities outside the classroom. As a member of a UNO organization, students have developed leadership and interpersonal skills, built friendships, served the community, the

campus, and people around them. Types of groups include professional, honors, political, religious, service, social, Greek, special interest, and departmental.

## Greek Life

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The Office of Student Involvement and Leadership provides advisory support and guidance to the university's seventeen fraternities and sororities. The department offers various programs and services, including active oversight of chapter events, planning and implementation of leadership retreats and workshops, monitoring of academic performance of fraternity and sorority members, and recognition of the positive achievements of the organizations. In partnership with faculty, staff, alumni, and inter/national fraternal organizations, the Office of Student Involvement and Leadership challenges and educates students in the areas of leadership, cultural awareness, personal and group development, scholarship, and civic responsibility. More information about Greek Life is available at [www.greeklife.uno.edu](http://www.greeklife.uno.edu).

## Student Media

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The *Driftwood* is a weekly student newspaper containing general news, feature and sports stories, editorials and other columns. All positions are open to students.

The annually published literary magazine, *Ellipsis*, includes stories, poems, photographs and drawings by members of the UNO community and publishes award-winning work by UNO students.

## Recreation and Intramural Sports

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Recreation & Fitness Center (RFC) has approximately 87,000 square feet of space dedicated to a variety of fitness and recreational activities, making it the largest recreation and fitness facility on the Lakefront. This full-service, state of the art center offers the latest equipment and technology in a convenient on-campus location adjacent to the University Center. Amenities including: free weights, plate-loaded machines, treadmills, stationary bicycles, rowing machines, elliptical cross-trainer, the Dr. Richard J. Stillman 1/10 mile indoor jogging/walking track, group exercise classes, indoor cycling, dry saunas, racquetball courts, basketball courts, snack bar, and a natatorium (25 yard/4-lane lap pool). Personal training and fitness assessments are also available. To schedule these services please call the Fitness Assessment Office at 280-FITT (3488) or for more information contact the Assistant Director-Fitness, Kassie Thibodeaux at 504-280-6009 or [kthibode@uno.edu](mailto:kthibode@uno.edu)

UNO Students are admitted with a current valid UNO student ID.

Persons in the same household of a UNO student may join at a discounted rate. Membership to the UNO Recreation and Fitness Center is also available to: Faculty/Staff, Faculty/Staff Retirees, Active Alumni, Research & Technology Park employees, Senior Citizens and Community Members.

**Hours of Operation:** Monday-Friday, 6:00 a.m.-8:00 p.m., Saturday, 8:00 a.m.-3:00 p.m. and CLOSED on Sunday. Hours of operation and group exercise schedule are subject to change as needed.

### **Intramural Sports**

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Recreation and Intramural Sports (RIS) administers men's, women's, and co-recreational intramural sports. Team sports include: basketball, flag football, table tennis, volleyball, tennis, soccer, swimming and softball. Top student teams may be selected to compete at the LCIRSA State Tournament each semester; as well as Regional and National Tournaments. For more information please contact Carl Pilie at 504-280-3487 or [cvpiliel@uno.edu](mailto:cvpiliel@uno.edu)

### **Club Sports**

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Club Sports are designed to bring students with common interests together. All club sports are organized by students and provide both recreational and competitive programming. Club sports include wrestling, inline hockey, social dance, sailing, rugby, football, cricket, men's soccer, women's soccer, ultimate frisbee, dance, cheerleading, table tennis, martial arts, and tennis. Most of the teams travel to compete against other local/regional universities. Whether a club remains active relies solely on the interest of students. For more information please contact Carl Pilie at 504-280-3487 or [cvpiliel@uno.edu](mailto:cvpiliel@uno.edu).

### **Summer Sports Day Camp**

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The UNO Summer Day Camp provides activities for children ages 4-11 years of age.

The program is held during the months of June, July, and early August. For more information, please contact Camp Director Jody Duvernay at [jduverna@uno.edu](mailto:jduverna@uno.edu) or visit our website at <http://ris.uno.edu/> and click the Summer Camp link.

For more information about programs and services offered by the Department of Recreation & Intramural Sports please call 504-280-6357 or visit our website <http://ris.uno.edu/>

### **The Office of Student Involvement and Leadership**

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The Office of Student Involvement and Leadership is committed to providing programs and opportunities through which students may become meaningfully involved in campus life. These programs and initiatives include leadership development, organizational involvement, campus wide entertainment, cultural and educational programs, volunteer service, and recognition. The Office of Student Involvement and Leadership strives to create opportunities so that students can achieve academically and socially in ways that will facilitate their transition into the world as responsible citizens. The areas that fall under the purview of The Office of Student Involvement and Leadership include leadership development and advisement of student organizations, Student Government, Student Activities, the Leadership Cabinet and Greek Life.

### **Intercollegiate Athletics**

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University of New Orleans intercollegiate athletics has commenced a multiyear reclassification process to NCAA Division III. For the 2010-11 academic year, UNO will field teams in five men's sports (baseball, basketball, golf, tennis and swimming & diving) and four women's sports (basketball, swimming & diving, tennis and volleyball). Contact the UNO Athletic Department at (504) 280-6102 for more information. Students with a valid student identification card are admitted FREE to

all home athletic events.

UNO has a rich athletic tradition. The Privateer baseball won the Sun Belt Conference championship in 2007, has won 13 NCAA berths and was the first Louisiana team to go to the College World Series. Men's basketball has earned four NCAA tournament and 11 National Invitational tournament berths and has won 20 or more games in a season 14 times. Women's basketball has won 20 or more games in a season six times and has appeared in post season play. UNO hosted the 2002 NCAA Volleyball Championships, the 2003 men's basketball Final Four, the 2004 Sun Belt Conference Volleyball Tournament and the 2008 NCAA Women's Basketball Regionals.

Basketball games will be held at the Lakefront Arena at 6801 Franklin Avenue on the East Campus, while volleyball games will be held on the main campus at the Human Performance Center, at the northwest corner of Elysian Fields and Leon C. Simon. Swimming events are held at the Aquatic Center in Lakefront Arena, while tennis and baseball are held at facilities adjacent to the Arena. Lakefront Arena houses a 10,000 seat facility for basketball, concerts and other entertainment events, as well as an auxiliary gymnasium, an Olympic size swimming pool and a weight room for use by UNO athletes. The offices of Intercollegiate Athletics is now located at The Athletic Center at the corner of Leon C. Simon and Franklin Avenue. For up-to-date information on game times and locations, check the Privateers official web site at: [www.unoprivateers.com](http://www.unoprivateers.com).

### **National Student Exchange**

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The University is a member of National Student Exchange (NSE) which provides opportunities for students to study for up to one calendar year at another NSE member college or university with non-resident fees waived. With nearly 190 universities from which to choose, students should be able to find a campus with just the right combination of courses, facilities, and environment to meet personal and academic needs and interests. NSE extends beyond the borders of the United States to include U.S. territories as well as Canadian provinces. Students must be at least sophomore level (30 credit hours) with a minimum 2.5 GPA at the time of the exchange. Students meet with their UNO advisors prior to the exchange to assure that all credit completed while on exchange will transfer toward their UNO degree program. Information and applications for the exchange are available at the Interdisciplinary Studies Program Office in room 214 of the Bicentennial Education Center, or in the Registrar's Office in room 112 of the Administration Building. Additional information concerning the NSE Program and all partner universities may be obtained at <http://www.nse.org>.

### **Student Health Services**

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Student Health Services is committed to providing the highest quality health care to the UNO community. Health Services offers evaluation and treatment of illness and injury, as well as educational programming for health promotion and illness prevention. Primary care is provided to students, on an appointment, and walk-in basis.

Various injections, immunizations, and advice on travel abroad are available to students. Comprehensive physical evaluation and diagnostic laboratory testing are available to students. Feedback is an important part of the health teamwork, and students are encouraged to offer ideas and suggestions to improve Student Health Services through a report card system. Student Health Services is located in the Human Performance Center room 109. Hours are 8:00 a.m.-4:30 p.m., Monday through Friday. Please visit our web site at [www.studenthealth.uno.edu](http://www.studenthealth.uno.edu).

### **Pharmacy**

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The pharmacy, located in the Human Performance Center, room 209, is open from 9:00 a.m. to 4:00 p.m., Monday through Friday. The

pharmacy can fill prescription and over-the-counter medication needs on campus, at competitive rates. Faculty and staff are invited to use UNO's pharmacy!

### **Student Sickness and Accident Insurance**

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The University negotiates a moderately priced sickness and accident insurance policy for students. Students not covered by another sickness and accident insurance policy are strongly encouraged to enroll in this plan. The plan includes savings realized by Student Health Services acting as primary care giver. Additional savings are provided through the use of a preferred provider organization.

The policy is optional for domestic students. Dependents can also be covered on this policy. Policy information is available at Student Health Services, Human Performance Center Room 109 or 119.

International Students are required by law to have health insurance. This policy meets the minimum requirements of the law and is cost effective. However, International Students may purchase other policies or bring one from their country that meets the minimum requirements.

### **Office of Disability Services**

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University of New Orleans is committed to providing an environment where all students have the opportunity to equally participate in the academic experience, including students with disabilities. Students with disabilities have rights as determined by federal and state laws which require institutions to provide reasonable accommodations for the student's disability in order to afford an equal opportunity to participate in the college's programs, courses, and activities.

The Office of Disability Services (ODS) assists students in meeting many of their educational needs on campus. The office may be able to secure academic accommodations for students who have documented disabilities (physical, psychological, learning disabilities, chronic health diagnoses, or temporary disabilities).

Accommodations include, but are not limited to, academic aids such as note takers, extended test taking time, course materials in alternate formats, adapted computers, tape recorders, and assistive listening devices. ODS can also provide assistance with registration during walk-in fee payment, such as navigating lines, communicating with staff, and reading signs.

ODS can assist in the coordination of accommodations for campus tours and events such as New Student Orientation (including testing accommodations for placement examinations.)

The Section 504 Compliance Officer is the Director of Disability Services, and is located in the MH 159. The ADA Compliance Officer is the Director of Design and Construction, Facility Services. If you have any questions regarding specific responsibilities of these officers, please call (504) 280-6222 or visit [www.ods.uno.edu](http://www.ods.uno.edu).

For more information, contact ODS at 280-6222 or visit <http://ods.uno.edu/>.

### **Office of International Students and Scholars**

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The Office of International Student and Scholars (OISS) provides support to approximately 750 international students and approximately 100 international faculty and staff from over 90 countries. Specifically, OISS assists international students, faculty, and staff in maintaining their legal status under U.S. immigration law. In addition, the office provides support on such matters as cross-cultural adjustment, personal and financial issues, and academic problems. Programs offered by the OISS include new student orientation and educational workshops on topics of interest to international students, faculty, and staff. OISS produces a regular newsletter, maintains an e-mail list-serve, and co-sponsors cultural events such as international coffee/tea hours, and an international festival in cooperation with international student organizations. Specific information about OISS programs is

available at the following web address: <http://www.uno.edu/oiss/>.

### **Multicultural Affairs**

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Multicultural Affairs through the Office of Student Affairs assists in developing services and programs to help recruit, retain, and graduate diverse, multicultural students; to meet their academic and social needs; to advise and counsel students and student organizations; and to help the UNO community recognize, appreciate, and respect diversity.

UNO is committed to promoting campus sensitivity to issues affecting diverse students and students of color. This office serves as liaison for multicultural students with appropriate offices advocating their needs where possible.

Sponsoring and co-sponsoring activities that demonstrate a diverse, multicultural presence is an important part of the mission of this office. Working with students, student groups, faculty, and departments, and with events such as the Martin Luther King, Jr. Convocation, the Native American Pow Wow, the annual Jewish Seder, the Black Heritage Ball, a Brown Bag Dialogue Series, and a Multicultural Book Discussion Series are annual or alternate-year possibilities. For applicants who have been convicted of a felony, the office facilitates the process of their becoming enrolled at the University where appropriate.

### **Children's Center**

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The University operates a learning center for children one to five years of age. The center is open to children of students, faculty, and staff on a space-available basis. Hours of operation are Monday-Friday, 7:30 a.m.-5:30 p.m. The Center is located on the main campus. For further information, call (504) 280-3131.

### **Student Housing**

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#### **Residence Facilities**

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##### **PONTCHARTRAIN HALL**

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Pontchartrain Hall is UNO's beautiful new residence hall comprised of two state of the art four story buildings. Residents will have their choice of a private room with bath, a two bedroom unit with one bath or a four bedroom unit with two baths. Each bedroom is furnished with a bed, student desk, chair, chest of drawers and built in closet. Each room has 9 ft ceilings, with bedrooms wired for Ethernet and cable television. Two and four bedroom units have common lounge areas which are also furnished. The common lounge area is wired for local telephone service.

The facility has card access, security cameras, a small convenience store, an activity area with billiard table, foosball, etc. There are large social areas to accommodate a wide variety of programs for residents, study areas, a residents' kitchen and laundry facilities. The patio area is furnished with tables, chairs and three BBQ pits.

Rates include all utilities, furnishings, local telephone, cable television and internet. Residency in Pontchartrain Hall requires a mandatory declining balance meal plan of \$870.00 which can be used at any food operation (Starbuck's, Subway, Chic-fil-A, The Galley Cafeteria, Bene Pizza, Java City or any of c-stores, etc.) during any hour they are operational.

Please note that admission to the University does not guarantee on-campus housing accommodations. Students must apply separately for housing and accommodations cannot be guaranteed until a student is officially accepted for admission to the University.

For more information, please contact UNO Student Housing at (504) 280-6402 or e-mail [studenthousing@uno.edu](mailto:studenthousing@uno.edu).

##### **PRIVATEER PLACE**

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Privateer Place is a beautiful apartment-style community located in the northwest corner of the campus. Offering the following

accommodations and amenities in nine and 12 month leases: four bedroom, two bath apartments, furnished (rented per person); two bedroom, 2 bath apartments, furnished (rented per person); and efficiency apartments, unfurnished (rented per unit).

Furnished units have a bed, student desk, desk chair, nightstand, and bachelor's chest of drawers in each bedroom. Each common living area includes a couch, matching chair, coffee table, end table, and built-in dining table with chairs. Rates include utilities, garbage, and access to all on-site amenities including coin-operated laundry facilities, swimming pool, hot tub, clubhouse for student gatherings, and a sand volleyball court.

Privateer Place is open during academic breaks, and tenants are able to stay in apartments throughout the lease term. For more information about housing at Privateer Place, call (504) 282-5670.

## **Counseling Services**

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The Counseling and Career Center supports the educational aims of the University by assisting students in their personal and professional development. This is accomplished through the provision of mental health counseling and consultation, career counseling, career exploration and employment search assistance. In addition to its focus on the individual student, the Counseling and Career Center provides consultation for academic departments and student services within the university, and offers specialized professional training for graduate students in the behavioral health professions and career services.

The mental health counseling offered to students is short term in nature and focused on the resolution of current personal problems. A broad range of counseling services is available, including problem assessment, psychological testing, individual, couples, and group counseling as well as psycho-educational workshops and seminars. These services are designed to be short term in nature. Students who need longer term or specialized services will be referred to local providers. Career services are designed to assist students in choosing careers, obtaining career related work experience while in school, developing job search skills, and securing employment or admission to graduate or professional school. Through career fairs, on-campus interviews and online networking the UNO Counseling and Career Center also seeks to provide opportunities for interaction between UNO students and alumni seeking jobs and employers looking for new hires.

Most services are free, but reasonable fees do apply for therapy and testing services. All mental health services are confidential.

The Counseling Services professional staff members are licensed clinicians or are supervised by licensed clinicians. Advanced graduate students in various behavioral sciences are affiliated with the department and also provide counseling and career services as part of their internship or practicum under the supervision of licensed professional staff members. UNO Counseling and Career Center is an accredited counseling center and maintains the highest standards as set forth by the international Association of Counseling Services, Inc.

## **Office of Student Accountability and Advocacy**

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The office addresses concerns and problems related to the University. There are a number of ways this office assists. The first is through the "UNO Student Code of Conduct" which can be found in the UNO Policy Manual/Student Handbook. The philosophy of the code is one of civility and education. The University expects exemplary behavior from students in all phases of college life. It is the responsibility of students to familiarize themselves with the specific rules and regulations governing student behavior and to maintain the highest degree of integrity—both in and out of the classroom.

Student Advocacy is another function. Often students experience problems within the university setting. Through consultation with the

staff, conflict resolution is attempted. Additionally, if any student is experiencing a crisis or is a victim of an on-campus crime, this office can provide assistance, resources and referrals.

The third function of the office is to review parking and traffic appeals. The brochure of related information can be obtained at University Police or from this office. More information can be found at [www.studentaffairs.uno.edu](http://www.studentaffairs.uno.edu).

## **Veterans' Affairs**

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The Office of Veterans' Affairs provides information on educational benefits for veterans attending UNO. Veterans eligible for educational benefits are urged to establish contact with this office when they arrive on campus. For further information call (504)280-6992, email [pseiler@uno.edu](mailto:pseiler@uno.edu), or visit the office within the Administration Building, Room 112F.

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# University Regulations

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## General Educational Goals of the Undergraduate Program

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The University of New Orleans provides its undergraduate students equality of access to educational opportunities, and seeks to nurture in them scholarship, academic excellence, the ability to work productively with others, and qualities of leadership for citizenship in a modern urban environment.

The General Degree Requirements established at the founding of UNO and most recently modified by a 1986 mandate of the Board of Regents further these goals by providing a common general education for all who complete undergraduate program. All students completing a baccalaureate degree attain appropriate competencies, as follows:

1. to communicate effectively in oral and written English;
2. to read with comprehension;
3. to reason abstractly and think critically;
4. to understand numerical data and statistics;
5. to understand the scientific method;
6. to be familiar with key technological and informational applications;
7. to learn independently;
8. to recognize and appreciate cultural diversity;
9. to understand the nature and value of the fine and performing arts;
10. to develop a personal value system while retaining a tolerance for others; and
11. to understand the American political and economic system.

## GENERAL REGULATIONS

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### Registration

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No one may register in any semester or summer session after the official registration period indicated in the University calendar. Special permission will be granted only in those cases in which unusual extenuating circumstances have made registration at the proper time impossible. The University does not guarantee that during a given semester a student will be able to schedule every class which he or she might be required to take or wish to take. No student will be permitted to remain in class unless the instructor has received from the University Registrar evidence of proper registration. A student desiring to change from one college to another after registration has been completed must have the consent of both college deans concerned.

### Changing Majors

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A student desiring to change from one college to another after registration has been completed must have the consent of both college deans concerned.

Cross-Enrollment Agreements between UNO and Southern University in New Orleans, Delgado Community College, and Elaine P. Nunez Community College

Through separate formal agreements between UNO and Southern University in New Orleans and Delgado and Elaine P. Nunez Community Colleges, UNO students may register for a limited number of classes at each of these institutions when they register at UNO. Students should contact the office of their dean or the Registrar for information regarding the procedures to be followed in this process.

### Concurrent Registration

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A student registered at UNO may not receive degree credit at UNO for any work taken concurrently at another college or university or by correspondence study, without prior written approval of his or her dean. Any UNO student who wishes to take courses at another college or university during a summer, or a regular semester when not enrolled at UNO, must also obtain prior approval of the dean.

### Change of Address

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At the time of registration, a student should verify his/her current mailing address. If there has been an address change, the new address must be changed on the web through UNO's homepage. The University will consider all correspondence mailed to a student at the address currently on file to have been received unless it is returned to the sender.

### Credits and Semester Hours

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The value of each course of instruction and the amount of work required for graduation are stated in terms of semester hours. A semester hour of credit represents one hour of class work, or two or more hours of laboratory or recitation work per week for a semester (more per week during the shorter summer sessions).

### Enrollment Classification Full-time Students

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Those undergraduates enrolled for twelve or more hours, or those graduate students enrolled for nine or more hours of resident credit in a regular semester, or (for both undergraduate and graduate students) six or more hours of resident credit during the summer session are classified as full-time.

A candidate for graduation may request to be classified as a full-time student in the semester or summer session during which he or she is scheduled to complete the requirements for a degree, even though the number of hours scheduled is less than that ordinarily required for classification as a full-time student. A student thus classified full-time is required to pay the fees appropriate to the full-time classification.

## **Part-time Students**

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Students who do not qualify as full-time students as defined in the paragraph above are part-time students. A part-time student is subject to all University rules concerning registration, attendance, scholarship, and conduct.

## **Auditors**

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Regularly enrolled students at UNO may be admitted to classes as auditors by obtaining written permission from the chair of the department in which the course is taught and the dean of the college in which they are enrolled. Others must obtain official admission to the University in addition to obtaining permission as indicated. The fee for auditing a course is the same as for enrolling for credit. Auditing fees are not refundable.

Auditors will not receive university credit, and will not be permitted to take an advanced standing examination on audited work. Upon certification by the faculty member in charge of the course that the student did not actually attend, notation that the student audited the course will be stricken from the record without right to a refund of fees.

Students may not change from audit to credit after the last day to add a course. With permission of their dean, they may change from credit to audit within the first 15 class days of the semester (7 class days in the summer).

## **Schedule Changes**

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### **Adding Courses for Credit**

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Courses may be added for credit only during the first week of classes in the fall and spring semesters and the first three days of classes in the summer session.

### **Dropping Courses**

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Students are responsible for initiating action to drop courses on or before the last day to drop as indicated in the current Class Schedule Bulletin. After that date a student may not drop a course. Exceptions must be authorized by the dean of the student's college and will be granted only under the most extenuating circumstances. Unsatisfactory academic performance in itself is not an extenuating circumstance. Students who fail to drop courses by the published final date for such action will be retained on the class rolls even though they may be absent for the remainder of the semester. In such instances a grade of XF or XU will be given, as appropriate for the class grading designation. A student may be dropped, at the discretion of the dean of the college, from any course for which the student is ineligible.

Failure to attend class does not constitute a course drop. Withdrawn courses reduce a student's enrolled hours, but not the student's financial obligation.

### **Changing Sections**

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Section changes, if permitted, are subject to the same time limitations as the adding of courses.

## **Attendance Regulations**

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Students are expected to attend all classes regularly and punctually. Students in regular classes who are not present when attendance is checked are considered absent. Students in on-line classes are

expected to participate in all work assigned by the instructor including submission of homework, assignments, quizzes, discussion board postings, and other assigned work. Students in on-line classes who do not participate in accordance with the requirements of the course are considered absent.

A student must attend all classes in any course for which he or she is registered. A student enrolled in an on-line course must participate in all required assignments for that course. All unexcused absences in courses are counted against a student's attendance record.

Any student registered in a college may, at the discretion of the dean, be placed on attendance probation. The dean is further authorized to drop from the rolls of the University any student who violates this attendance probation.

A student placed on academic probation is automatically placed on attendance probation.

A student on academic or attendance probation is expected to attend all classes and an absence from any class may be reported to the appropriate administrator.

Each instructor shall report all cases of absence from class which, in the opinion of the instructor, jeopardizes the student's chances of satisfactorily completing the course.

A student dropped from the University for violation of attendance probation will not be eligible to re-enter the University until the expiration of the next regular semester, at which time he or she may be readmitted upon the approval of the dean.

## **University Closures**

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If the University must close due to unexpected circumstances, faculty and students may have to make up missed class and laboratory time. In some circumstances resulting in closure of the University, the Provost will determine how classes will be made up. In other circumstances, the methods for making up missed classes and laboratories will be made up with extra assignments and readings, additional days of class or laboratory, additional class time, or in other manners to be determined.

## **Retroactive Academic Appeal**

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When extraordinary circumstances compel a student to request a retroactive action (e.g., withdrawal) after the close of a semester, the student must petition the Committee for Student Retroactive Academic Action, a standing committee of the Office of Academic Affairs, for exception to University policy.

Requests for exceptions must be made within three calendar years following the degree conferral date of the semester that is being appealed.

Students may not petition for exceptions after graduating.

All committee procedures are confidential, respecting the privacy of the student.

Committee decisions are final.

To begin the appeal process the student must contact the dean's office of the college in which the student was enrolled during the semester that is being appealed.

The procedure for appeal can be found in the UNO Student Handbook and in the dean's office.

For current Catalog:  
[http://registrar.uno.edu/catalog/1011catalog/university\\_regulations.cfm](http://registrar.uno.edu/catalog/1011catalog/university_regulations.cfm)

## **Withdrawal from the University**

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Students are responsible for initiating action to resign from the university (withdraw from all courses) on or before the last day to resign as indicated in the current Class Schedule Bulletin. After that date a student may not resign from the University. Exceptions must be authorized by the dean of the student's college and will be granted

only under the most extenuating circumstances. Students who fail to resign by the published final date for such action will be retained on the class rolls even though they may be absent for the remainder of the semester. In such instances grades of XF or XU will be given, as appropriate.

Failure to attend classes does not constitute a resignation. Resignation eliminates a student's enrolled hours, but not the student's financial obligations.

Request for approval for course drops or resignation following the final date for such action, as indicated in the current Class Schedule Bulletin, should be made to the dean of the student's college. Only written appeals filed prior the final date of the session will be considered. The dean may contact instructors for their input in the process. Appeals should be submitted at the earliest possible time. In order to receive approval students must provide documentation that demonstrates the request is occasioned by circumstances beyond their control which clearly impacted their ability to drop a course or resign from the University. A failing grade is given when a student fails to complete a course without receiving approval for official course drop or resignation.

**CAUTION:** Students should continue to attend classes until they have been notified that the late drop or resignation has been approved. Withdrawing from courses may have an adverse effect on financial aid, scholarships, loan deferments, athletic eligibility, health insurance, veteran's benefits, degree requirements or other areas. Students considering course drops or resignation should first check with their major college and the Financial Aid Office to determine if this is really their best option.

If the appeal for late drop or resignation is granted:

1. The official date of withdrawal or resignation will be the date of the appeal approval.
2. A W will appear on the student's transcript, instead of a letter grade.
3. The student will not receive credit for the course.
4. The student will not receive a tuition refund.
5. The student may be required to repay any financial aid award

When extraordinary circumstances compel a student to request retroactive withdrawal after the close of a semester, the student must petition for exception to University policy to the University Committee for Retroactive Action.

Requests for exceptions must be made within two calendar years following the final date of the semester in question, and normally only as part of a request for resignation from the entire semester. Requests should be filed in the dean's office of the student's current college for submission to the University Committee for Retroactive Actions. For more information see the following section.

The University Committee for Retroactive Actions, a standing committee of the Office of Academic Affairs, considers appeals for exceptions to academic regulations regarding course drops or withdrawal after the close of a semester.

Students cannot petition for exceptions after graduating.

To begin the appeal process, the student must contact the dean's office of his/her current college to obtain the appeal for exception guidelines. The student will complete the appropriate appeal form and prepare a letter which details the extenuating circumstances supporting the student's belief that the committee should grant the request for exception. All circumstances cited in the student's letter must be documented, and the student is responsible for gathering all the necessary supporting material. Examples of documentation may include, but are not limited to, medical records, police reports, death certificates, military orders, employer reports and supporting letters from instructors. Any petition which does not have the required documentation will not be heard. Petitions for retroactive course withdrawal normally apply to all the courses a student took in a semester, but in

some cases a partial withdrawal may be granted. Students requesting a withdrawal in some, but not all of their courses, must provide documentation to justify a partial withdrawal.

After the dean's office receives the student's completed appeal form, letter, and all necessary supporting documentation, the petition will be presented to the committee for consideration at one of its regular meetings. Requests are granted or denied by a majority vote of the committee. Decisions are effective immediately, and students are notified of the outcome by the committee.

All committee procedures are confidential and ensure the right of privacy of the student. Since a request to waive a regulation is itself an appeal, committee decisions are final, and there is no further appeal within the University.

If the petition for late drop or resignation is granted:

- The official date of course withdrawal or resignation will be the final date of the semester in question.
- A W will appear on the student's transcript, instead of a letter grade.
- The student will not receive credit for the course.
- The student will not receive a tuition refund.
- The student may be required to repay any financial aid awards.

## **Final Examinations**

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Final examinations are required and shall be held at the end of each semester/term or summer session in accordance with the schedule issued by the Office of Academic Affairs. When final examinations are inappropriate because of the nature of the course, exceptions to this requirement may be made upon approval of the appropriate dean and the Office of Academic Affairs.

## **Grade Reports**

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The University reports grades at mid-semester for all freshmen and at the end of each semester for all students. Only the grades reported at the end of the semester (final grades) are used in the computation of the student's grade-point average. Mid-semester grades are simply an indication of the student's progress and are not calculated in the summer session.

The University does not mail final grade reports. Students may access final grades through WebSTAR. Mid-semester grades are available to freshmen through their college office.

## **Grade Appeal Policy**

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The course final grade appeal policy provides the student with a safeguard against receiving an unfair final grade in a course, while at the same time respecting the academic freedom of the instructor which is vital to the integrity of the teaching process at the University of New Orleans. The course final-grade appeal process strives to resolve a dispute between student and instructor in the assignment of a course final grade at the collegial level. The intent is never to embarrass or disgrace students or instructors, nor to assess penalty or retribution on any party when mistakes are discovered, but instead to provide a neutral forum for the discussion of differences of opinion. Every student has the right to have a request for consideration of his or her final grade reviewed by the chair of the department and a departmental Grade Appeal Committee. The course final-grade appeal is confined to charges of unfair action against an individual student and may not involve a challenge of an instructor's class grading standard. It is incumbent on the student to substantiate the claim that his/her final grade in the course represents unfair treatment, compared to the standard applied to the remainder of the class. Only the final grade in a course may be appealed.

## **Credit for Repeated Courses**

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When a student is permitted to repeat a course for credit, the last grade earned shall be the one which determines course acceptability

for degree credit. A student who has earned a C or better in a course may not repeat that course unless 1) the catalog description indicates that the course may be repeated for credit, or 2) the student's dean gives prior approval for some special reason. If a course is failed at UNO, it must be repeated at UNO with a satisfactory grade in order to constitute degree credit.

## **Transcript of Record**

The official permanent academic records for all UNO students are in the custody of the Office of the Registrar. Release of these records is protected by the "Family Educational Rights and Privacy Act." Transcripts of the academic record may be secured by the individual personally, or will be released on the student's written authorization. Transcripts cannot be issued until the student or former student has settled all financial obligations to the University and has submitted all required transcripts from other colleges attended. A fee of \$5 will be charged for each copy of the transcript. Transcript processing requires a minimum of three working days. Official transcripts can only be released to a third party.

## **Eligibility to Represent the University**

No student will be permitted to represent the University in intercollegiate athletics unless he or she is classified as a full-time student. Students may participate as members, substitutes, or officers so long as they are enrolled for at least six semester hours unless otherwise indicated by a particular unit or organization. Organizations may include dramatic, literary, musical or other types including Student Government.

## **The Student Identification Card**

The Media Resources Office issues to each student a permanent identification card, including a photograph, and a student number. This card will be used for the entire duration of the student's enrollment at the University. The card is required for borrowing library books, cashing personal checks, admission to athletic and social events, selling used textbooks, Testing Services, meal plans, and other official purposes. Fraudulent use of the ID card will result in disciplinary action. The card is issued to the individual student and must not be loaned to another person for any reason. Any University official having just cause has the right to request that a student show the identification card for identification purposes. Upon such a request by a University official, the student is required to comply.

ID cards are made during Centralized Enrollment Services and on a continuous basis thereafter. Check with Media Resources for location.

## **Family Educational Rights and Privacy Act**

Annually, UNO informs students of the Family Educational Rights and Privacy Act of 1974 (Public Law 93-380). This Act, with which the institution complies fully, was designed to protect the privacy of educational records, to establish the right of students to inspect and review their educational records, and to provide guidelines for the correction of inaccurate or misleading data through informal or formal hearings. Students have the right to file complaints with the Family Policy Compliance Office, U.S. Department of Education concerning alleged failures by the institution to comply with the Act.

University policy explains in detail the procedures to be used by the institution for compliance with the provisions of the Act. Copies of the policy can be found in the following offices: Admissions, Chancellor's Office, Academic Affairs, Office of Business Affairs, Student Affairs, Student Personnel Records, each college/school/division/dean's office, each academic department office, and on the web at <http://academicaffairs.uno.edu/>.

Questions concerning the Family Educational Rights and Privacy Act may be referred to the University Registrar.

## **University Discipline**

The University expects of its students a high degree of honor in all phases of college life. It is the responsibility of all students to familiarize themselves with the rules and regulations governing student conduct as published whether in print or on the web, in the UNO Student Handbook and other official publications.

The authority structure for administering the judicial code is the Chancellor, through the Dean of Student Affairs to the Associate Dean of Judicial and Student Assistance. Please refer to the section on Judicial and Student Assistance in this catalog and to the UNO Student Handbook for more details.

### **Statute of Limitations**

In the absence of any designated time limits in documents on policies or procedures, the University imposes a time limit of three years for the initiation of any request for an exception to its rules or regulations.

## **UNDERGRADUATE REGULATIONS**

### **Classification**

Classification of undergraduate students is made in the Office of the Registrar based on the number of credits and quality points earned, and is revised, as may be necessary, at the beginning of each semester.

The rules governing the classification of undergraduate students are:

- Freshmen: Students having fewer than 30 hours of credit.
- Sophomores: Students having at least 30 hours of credit.
- Juniors: Students having at least 60 semester hours of credit.
- Seniors: Students having at least 90 semester hours.

### **Maximum and Minimum Work**

The normal freshman schedule in a regular semester should range between 12 and 15 hours. A student whose record shows poor preparation for college work (placement in English below 1157 or Developmental Math) must not be registered for more than 15 hours and may be advised to limit the academic load to fewer than 15 hours. Students on scholastic probation are limited to 13 semester hours in a regular semester and seven hours in a summer session.

Students may register for more than 19 semester hours of work only with permission of their Dean and provided they have maintained an overall 3.0 (B) average and have not fallen below a grade of C in any subject during the preceding semester; but in no case will any student be permitted to register for more than 21 semester hours of degree credit. Students who register for fewer than or drop below 12 semester hours of work (six in the will not be considered full-time who register for fewer than 12 semester hours of work (six hours in the summer session).

In the summer session, six semester hours is the minimum full-time load, and the maximum load permitted is 12 semester hours.

### **Non-native Speakers of English**

All applicants who are from countries other than the United Kingdom, Australia, Canada (except Quebec), New Zealand, Ireland, and certain Caribbean Islands, must submit scores from the Test of English as a Foreign Language (TOEFL). The minimum required score for Graduate School admission is 550 composite and 55 listening comprehension on the paper test and 213 composite and 21 listening comprehension on the computer test. Please note that some graduate departments require a higher TOEFL score. For undergraduate applicants, the minimum required scores are 525 (paper test) or 195 (computer test).

Nonnative speakers of English who are admitted to UNO and whose score on the English part of the ACT is 17 or below, or who have not taken the ACT must take the English as a Second Language (ESL)

Placement Test. On the basis of these test results, students will be placed in the intensive ESL program (English 182, 184, 186) or in one of the other English composition courses (English 150, 187, 188, 189, 1157). A student placed in English 182 may not take any other credit course. A student placed in English 184 may take an additional course in another subject, and a student placed in English 186 may take one or two courses in additional subjects. These restrictions apply whether or not the student enrolls in the intensive ESL courses.

International students considering attending the University of New Orleans should know about the Intensive English Language Program (IELP). This excellent non-credit program will help students sharpen their English language skills, as well as teach them about American culture so that they feel comfortable and prepared for their courses. The IELP staff assists students in the UNO application process. An added benefit of studying in the IELP is that the students do not need to take the TOEFL to be considered for admission to UNO.

## General Degree Requirements

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To become eligible for a baccalaureate degree from UNO, a student must fulfill the following General Education Goals mandated by the Board of Regents:

1. Complete the following courses:
  - a. English—English 1157, and 1158 or 1159, with a grade of C or better.
  - b. Mathematics - six hours at or above the 1000 level.
  - c. Science—9 hours, including a six hour sequence in one science and an additional three hour course in another. One of the sciences must be Biological Sciences and the other one must be Chemistry, Earth and Environmental Sciences, or Physics.
  - d. Humanities - nine hours to include:
    - i. three hours in Literature.<sup>1</sup>
    - ii. six additional hours to be taken from the Departments of Film, Theater, and Communication Arts; English; Foreign Languages; History; Philosophy; Women's and Gender Studies.<sup>2</sup>
  - e. Social Sciences—six hours (including one course at the 2000-level or above) from Anthropology, Economics, Geography, Political Science, Psychology, Sociology and/or Urban Studies.<sup>3</sup>
  - f. Arts—three hours to be taken from the departments of Fine Arts, Music, or theatre/dance/film-related courses in Film, Theater, and Communication Arts.<sup>4</sup>
2. Earn a minimum of 120 hours<sup>5</sup> including at least 25 percent of the credit hours for the degree through instruction offered by the university and
3. Achieve a quality point ratio of 2.0 or better in:
  - a. all work attempted,
  - b. all work taken at UNO,
  - c. the college of the major,
  - d. the major subject, and
  - e. the semesters containing the last 60 hours of courses (excluding credit earned through Advanced Standing Examinations, Advanced Placement, Armed Services courses, correspondence courses, etc.) offered for the degree.

Since each curriculum has requirements in addition to those listed above, students should consult the appropriate section of this catalog to determine such additional requirements and restrictions as may apply to the particular degree program.

<sup>1</sup>Writing, linguistics, and grammar studies are not considered literature.  
<sup>2</sup>Transfer courses in religious studies may be used to fulfill this requirement.

<sup>3</sup>Other subjects under the Social Sciences in Area of Concentration may not count for this General Degree Requirement.

<sup>4</sup>Transfer courses in architecture, dance, interior design or landscape architecture may be used to meet this requirement.

<sup>5</sup>No more than one-half the semester hours required for the completion of a degree program may be transferred from a junior college. All of the above are subject to existing University policies. The University of New Orleans is in full compliance with Louisiana Act 356.

## Graduation Requirements

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Generally, a student must meet all the requirements for a degree outlined in one catalog. The student may elect any catalog in force during his or her enrollment at the University, provided enrollment is continuous. A student who breaks enrollment (either voluntarily or by compulsion) for five calendar years may not elect a catalog earlier than the one in force at the time of re-entry. Under no circumstances may a catalog more than 10 years old be used.

In some instances, program or college graduation requirements may be imposed that are not included in the catalog under which the student has chosen to graduate. These additional or different requirements are well publicized by the colleges involved. There are several requirements which must be completed by all students prior to graduation.

The student must:

1. complete all academic requirements for a degree. This includes both the general degree requirements and the particular program of study in which the student is enrolled.
2. ascertain, through the college of the major, that his or her academic record is accurate and complete. This should be done not later than one semester prior to graduation.
3. submit an application to the Registrar's Office for the degree during the registration period of the last semester in residence. The student will be required to make this formal application and state the exact name to appear on the diploma.
4. pay the diploma fee at the last registration. A student who has previously paid a diploma fee, but who failed to graduate at the time expected, must re-apply and pay the diploma fee again.
5. have all financial indebtedness to the University cleared prior to graduation.
6. have an exit interview for financial aid, if applicable.

A student who does not follow and complete the above requirements and procedures will not be allowed to graduate.

## Requirements for Second or Subsequent Baccalaureate Degrees

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Students earning two majors simultaneously at UNO

Students who wish to earn two majors simultaneously in the same college at UNO may do so, provided that they:

1. complete all requirements for each major.
2. meet all quality point average and grade requirements applicable to each major.
3. complete requirements for both majors before receiving the baccalaureate degree.

(Any student who receives a baccalaureate degree after completing the requirements for only one major must comply with the guidelines for a second baccalaureate degree.) Students wishing to double major in subjects in different colleges may do so provided both majors lead to the same degree designation (e.g., Bachelor of Arts, Bachelor of Science, etc.). In these cases, however, students should check with each college to decide whether they would be best to pursue the dual major or the dual degree.

## Students earning two degrees simultaneously at UNO

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Students who wish to earn two baccalaureates at UNO simultaneously may do so, provided that they:

1. complete all requirements for both degrees.

2. earn at least 25 percent of the degree requirements for each degree in residence.
3. meet all quality point average and grade requirements applicable to both degrees<sup>1</sup>.
4. develop degree plans with both colleges if the two degrees being sought are in different colleges.
5. cannot declare a minor in the area in which the other baccalaureate is being earned.

(Any student who receives a baccalaureate degree after completing the requirements for only one major must comply with the guidelines for a second baccalaureate degree.)

## Requirements for Second or Subsequent Baccalaureate Degrees

Students who hold a baccalaureate degree from UNO or an accredited institution may earn a second baccalaureate degree provided they:

1. complete additional course work applicable to the degree equivalent to at least 25 percent of the degree requirements for the second or subsequent degree.
2. complete all general degree requirements and subject requirements for the second degree.
3. meet all quality point average and grade requirements and subject requirements for the second degree.
4. complete either a B.A. or a B.S. with a double major. (There is no double major with a B.A. and a B.S.)

Students wishing to earn baccalaureate degrees subsequent to the second degree must satisfy the set of requirements listed above for each major in which a degree is sought.

NOTE: In determining eligibility for degrees with honors, all grades earned by the student are used.

## Residence Requirements

A transfer student who enters with advanced standing from another university and becomes a candidate for a bachelor's degree at UNO must fulfill a minimum residence requirement of two semesters (or four summer sessions) at UNO and must earn at least 25 percent of the credit hours required for the degree through instruction offered by the university. For all students, the last 25 percent of all coursework must be taken in residence while enrolled in the college from which the degree is to be earned.

## Areas of Concentration

The University recognizes four general areas of concentration. These areas, with the specific subjects falling under each one are:

### Business Administration

- Accounting
- Economics
- Finance
- Hotel, Restaurant and Tourism Administration
- Management
- Marketing

### Humanities

- Film, Theatre and Communication Arts
- English
- Fine Arts
- Foreign Language
- History
- Journalism
- Music
- Philosophy
- Women's and Gender Studies

### Sciences

- Biological Sciences
- Chemistry

- Computer Science
  - Engineering
  - Earth and Environmental Science
  - Mathematics
  - Physics
- Social Sciences**
- Anthropology
  - Economics
  - Education
  - Geography
  - Political Science
  - Psychology
  - Sociology
  - Urban Studies

The above areas of concentration are referred to in specific curricula listed elsewhere in this catalog. Arts & Sciences (A&S) courses may count toward humanities or social sciences general degree requirements for graduation credit. Social Sciences in Paralegal Studies (SOSC/PL) cannot be used to fulfill general degree social sciences requirements.

## Degrees with Honors

Baccalaureate degrees are awarded with honors on the basis of two criteria, the curriculum undertaken and grade-point average.

### University Honors

This distinction is earned by students who are admitted to and complete the requirements of the University Honors Program. Through special sections of regular courses, specially organized interdisciplinary courses, and independent study and research, members of the Honors Program acquire an undergraduate education that testifies to their superior academic ability and the extensive educational resources of UNO.

To graduate with University Honors, students in the Honors Program must: earn 30 semester hours of honors credit; concurrently enroll in and complete Arts and Sciences 1119 and either English 1159 or English 2151; complete a Senior Honors Thesis; and attain a 3.25 grade-point average in all coursework attempted and a 3.5 grade-point average in all courses in the major. Students who wish to participate in the Honors Program should contact the Director of the University Honors Program.

### Departmental Honors

Some subject areas offer programs which lead to the bachelor's degree with honors in the particular subject. Requirements include a 3.25 grade-point average in all coursework attempted and a 3.5 grade-point average in all courses in the major; completion of specified courses in the major; and completion of a Senior Honors Thesis. Details for each major are discussed in the Major Programs section of the catalog. Students wishing to earn departmental honors should contact the Director of the University Honors Program.

### Honors Degrees

The baccalaureate degree is awarded with honors to students who earn a minimum of 60 credit hours at UNO and who maintain a high grade point average. To be eligible for academic honors students must have a grade point average, including course grades eliminated through suspended grades and grades deleted by academic amnesty, that fall within the ranges shown below, both for courses taken at UNO and for all courses.

Honor	Grade Point Average
summa cum laude	3.90 to 4.00
magna cum laude	3.750 to 3.899

cum laude 3.50 to 3.749

Graduation with honors applies to all undergraduate degrees within the limitations set by the policy.

### College Honors/Dean's List

College honors are awarded each semester with the publication of the Dean's List for each division, college, or school. To be included on the Dean's List, a student must have:

1. earned at least a 3.5 grade-point average for that semester while attempting 12 or more semester hours of work; or
2. earned at least a 3.5 grade-point average for that semester and completed a total of at least 60 semester hours of credit with an overall grade-point average of 3.5 or better.

## Advanced Standing Examinations

Students of superior ability and preparation and students who have already gained fundamental knowledge of subjects offered at the University may be permitted to take Advanced Standing Examinations in specific courses which, if passed with satisfactory grades, will enable the student to receive degree credit. Advanced Standing Examinations are also referred to as credit examinations.

Requests for permission to utilize such examinations are initiated in the office of the dean of the college, school, or division in which the student is enrolled, and permission may be given subject to the following conditions:

1. Credit by Advanced Standing Examinations cannot be used to reduce the University's minimum residence requirement.
2. The student must have been admitted to the University and must be in good standing. If the examinations are taken while the student is not enrolled in the University, credit will be granted when he or she is registered for resident study.
3. In requesting authorization to take an Advanced Standing Examination, the student must obtain permission from the chair of the department offering the course and the dean of the college in which the course is taught. After such permission is granted and the fee, if any, is paid, the University Registrar will issue an official permit.
4. A student may not take an Advanced Standing Examination in a course which he or she has audited, nor in which a grade has been earned. A student may take an Advanced Standing Examination in a given course only once.

The administration of the examinations is also subject to the following regulations:

1. The examination must ordinarily be taken and the grade submitted within 30 days of the date of initiation of the request.
2. If a grade of C or higher is earned on the examination, a mark of P and regular credit in the course is entered on the student's record. If a grade lower than C is earned, only the fact that the examination has been attempted will be recorded; credit will not be allowed. Credit earned through Advanced Standing Examinations will not be used in computing the student's grade point average.
3. Advanced Standing Examinations are given free of charge to the student planning to enroll at UNO as a freshman, and until the final date for dropping courses without receiving grades of the first regular semester in which he or she is enrolled either part-time or full-time as a first-year student. All other students must pay a fee of \$20 per course.

A special invitation only, program is conducted during the spring of each year in which prospective freshmen who meet certain minimum ACT score qualifications come to the campus and take Advanced Standing Examinations in one or more subjects. There is no fee for

these exams, and credits earned will be entered on the student's record after official enrollment at UNO.

### CEEB Advanced Placement Examinations

Advanced placement and credit will be granted in appropriate subjects to students who have taken the Advanced Placement Examinations of the College Entrance Examination Board. When the student has achieved a grade of four or five on the advanced placement examination, credit will be granted; when the grade is three, the decision regarding credit will be referred to the judgment of the individual department.

Questions concerning the recording of these grades should be directed to the Office of Admissions.

### Other Advanced Credit

Advanced credit may be awarded for certain subject examinations completed through the College Level Examination Program (CLEP) and for non-collegiate courses recommended for credit by the National Guide to Credit Recommendations for Non-Collegiate Courses. Credit so earned may or may not be applicable to the student's degree program; final determination will be made by the student's dean. Prospective students desiring detailed information on these programs are advised to write to the Office of Admissions requesting a brochure on advanced placement and credit.

### Advanced Placement Credit for Courses Bypassed New Freshmen

In some departments, initial placement in sequential courses is based upon level of achievement from earlier training, as measured by scores on American College Testing program or departmental tests. Students who first entered the University after June 1967, and secured placement in this way above the normal beginning level, may petition for credit in the courses bypassed. No credit is allowed for remedial courses bypassed.

### Other UNO Students

In some departments, students who do exceptionally well in a sequential course at a given level may be permitted by the department to enroll in a course in that sequence other than the next one. Students who received advanced placement in this manner after August 1976 may petition for credit in the courses bypassed. No credit is allowed for remedial courses bypassed.

### Validation of Advanced Placement

The validity of placement must be established by passing the next course in the sequence with a C or better grade (on the first attempt). Detailed information may be secured at the office of the college or division in which the student is enrolled.

## Credit Limitation

Credit from all forms of advanced standing examinations (including those of the College Entrance Examination Board and the College Level Examination Program) and from bypass credit cannot exceed 30 hours. This credit cannot be used to reduce the University's minimum residence requirement.

### Credit for Correspondence and Extension Work

Each college fixes the amount of degree credit it will accept in correspondence or extension courses offered through the Continuing Education Division of Louisiana State University or through accredited extension divisions of other universities. In no case will a college accept more than 30 hours of work in this category and in all such

work presented for degree credit the same requirements as to grades and quality points must be met.

### Credit for Armed Services Courses

Many military educational programs are not directly usable in university degree programs because the focus is too narrow and pragmatic. On the other hand, some service schools provide instruction which may be equated with university work.

When the student presents the Office of Admissions with an official record of completion of a course at a service school, a notation will be made on the student's evaluation sheet in accordance with the recommendation of the Guide to the Evaluation of Educational Experiences in the Armed Services prepared by the American Council on Education. Credit for such courses may or may not be applicable toward the student's degree program; this will be determined by the student's dean.

Credit for ROTC or Health and Physical Education courses on the basis of service time will not be granted.

USAFI General Educational Development (GED) first- and second-year general tests will not be accepted.

### Credit for Experiential Learning

The University does not evaluate experiential learning portfolios. However, for non-traditional educational programs, credit may be awarded on the basis of the successful completion of an appropriate advanced standing examination. Discretion for giving such an examination belongs to the individual academic department. In addition, formal education programs sponsored by non-collegiate organizations (business, industry, government, voluntary, and professional agencies) may be awarded credit if recommended by the American Council on Education.

### Credit Limitation

Combined credit from advanced standing examinations, bypassed credit, armed services credit, correspondence/extension, and American Council on Education recommended credit work cannot exceed 32 hours.

## Undergraduate Grading System

- A The grade of A has a value of four quality points per semester hour and is given for work of the highest degree of excellence.
- B The grade of B has a value of three quality points per semester hour and is given for work of a high degree of excellence.
- C The grade of C has a value of two quality points per semester hour and is given for satisfactory work.
- D The grade of D has a value of one quality point per semester hour and is given for passing but marginal work.
- F The grade of F does not earn quality points. This grade is given for work failed. A student who receives this grade in a course must repeat the course at UNO in order to receive credit for it.
- XF The grade of XF does not earn quality points and is treated the same as an F. The grade indicates failure as well as poor attendance.
- P The grade of P means passing and is assigned for satisfactory work taken by advanced standing examination, for satisfactory completion of certain noncredit courses or courses numbered below 1000, and for satisfactory completion of courses taken on a pass-fail basis. This grade does not carry quality points and is not used in computing the official grade average of a student.
- U The grade of U means unsatisfactory and is assigned for unsatisfactory completion of courses numbered below 1000. Credit hours for which a grade of U is recorded are not used in calculating the student's average.
- XU is treated the same as a U. The grade indicates failure as well as

poor attendance.

- W The grade of W means withdrawal. This grade is given when a student drops a course or resigns from the University during the "W grade" period. Credit hours for which a grade of W is recorded are not used in calculating the student's average.
- UW The grade of UW represents an unofficial withdrawal from a semester/term. This grade is administratively awarded only when a student stops attending all classes for the semester/term as noted by faculty attendance records. This grade is not used in calculating a student's grade point averages.
- I The grade of I means incomplete and is given for work which is of passing quality but which, because of circumstances beyond the student's control, is not complete. The issuance of the grade of I is at the discretion of the faculty member teaching the course. A grade of I becomes a grade of F if it is not converted before the deadline for adding courses for credit (as printed in the catalog) of the next regular Fall or Spring semester.

### Suspension of a Grade

Under certain conditions, when a course has been repeated, UNO permits a student to request that a grade of D or F in a course be suspended and only the subsequent grade be used in calculating the grade point average. Some of the limitations are:

1. Course to be suspended is numbered below 3000.
2. Course to be suspended has not been suspended before.
3. The total number of hours suspended to date, including the hours to be suspended, does not exceed nine hours.
4. The repetition of the course to be suspended occurred before the student reached junior standing.
5. The student does not complete, prior to repeating the course, two or more higher-numbered courses for which the course is a prerequisite.
6. The student is eligible to enroll at UNO.
7. Both enrollments in the course are at UNO.

The official academic record (transcript) will indicate this suspension and will show in the academic summary a grade-point average calculated on the basis of the total number of hours attempted and a grade-point average calculated on the basis of suspended grades.

Class rankings, graduation honors, and eligibility for UNO academic honors programs are determined on the basis of the grade-point average for all credits attempted including those suspended.

The suspension of credit is an internal policy of the University of New Orleans and may not be recognized by other universities.

## Maintenance of Academic Standing

### General

Scholastic regulations embody the academic standards of a university. The application of the following regulations is directed toward upholding the standards of this University-specifically, to impose the requirement of satisfactory academic progress. Continuation of students who have demonstrated a lack of the necessary ability, preparation, industry, or maturity to make such progress and to benefit from a program of university study is inconsistent with the purposes and responsibilities of the University.

- The academic regulations, beginning with the section entitled Scholastic Requirements, set forth the conditions for good standing, probation, and exclusion. These regulations are intended to be consistent with the following objectives:
- To indicate to the student, at an early date and with regularity, that achievement below the standards required for graduation is regarded as unsatisfactory.
- To allow the first-time freshman the opportunity to remain a student until he or she has attempted two enrollments.

- To give the student who performs poorly a warning which may prompt him or her to seek timely help from instructors, counselors or other appropriate sources.
- To provide the student whose record shows that ultimate success in the University is in doubt with a trial period to prove that he or she is able to make reasonable academic progress.
- To prevent the student who lacks the required motivation or maturity from building a deficiency of quality points so great that it cannot later be overcome.
- To state the standards and the consequent results of inadequate scholastic performance clearly enough that students, parents, faculty, and administrators can know the academic action (if any) which would follow from a particular academic record.

4. A student who has been readmitted after having been dropped for academic reasons will be on scholastic probation when he or she returns.
5. Any student who is not permitted to re-enroll for continuing semesters must apply for re-admission upon completion of the prescribed period of absence. Prior admission decisions will not guarantee re-admission to the University.

## Definitions

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### CUMULATIVE AVERAGE

A student's cumulative grade-point average is calculated by dividing the total number of quality points earned by the total number of semester hours attempted. (See Grading System in this chapter for the quality points assigned to each final grade.)

### GOOD STANDING

It is expected that all undergraduate students should maintain a cumulative grade-point average of at least 2.0 (C) on all college work attempted and on all work attempted at UNO. The University will, however, certify a student to be in good standing as long as that student has a grade-point average that does not result in a scholastic drop.

## Scholastic Requirements

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1. A student will be placed on academic probation whenever the cumulative UNO quality points are 10 or more below a C average; that is, the total number of hours attempted at UNO, multiplied by two, exceeds quality points earned at UNO or elsewhere by 10 or more.
2. A student on academic probation will be dropped from the University at the conclusion of any semester (summer included) in which he or she fails to earn a grade-point average of 2.0.
3. Once on scholastic probation, a student will remain on probation until an overall grade-point average of 2.0 or higher is achieved at UNO and on all college work attempted.
4. Regardless of a student's overall average, if he or she fails to earn a 2.0 average in each of two consecutive semesters (or one semester and a summer session), ineligibility to continue in a college or a particular curriculum may result, at the discretion of the dean of the college. The student may still be admissible to another college of the University.

## Provisions for Students Dropped from the Rolls of the University

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1. A student who is dropped for the first time for academic reasons may appeal for immediate readmission through the college of his or her major. Otherwise, the student may not be considered for readmission until he or she has been out of the University for one regular semester.
2. A student who has been dropped twice for academic reasons must remain out of the University for at least one calendar year. The student may then apply for readmission. Readmission may be delayed or denied at the discretion of the dean of the student's college. The application must be made not less than 30 days before the first day of classes of the semester of re-entry.
3. A student who has been dropped for scholastic and/or disciplinary reasons may not obtain credit toward a degree in this University with credits earned at another institution during the period of ineligibility to register in the University.

## Readmission after Academic Suspension

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A student who has been dropped from the rolls of the University for the first time will not be permitted to register in the University until the expiration of one full semester unless his or her appeal for immediate readmission is approved by the Academic Review Board. After the expiration of the one semester, the student may be readmitted upon the approval of the Academic Review Board. Applications for re-entry must be filed at least 30 days before the beginning of the semester to provide adequate time for review. In addition to the Admissions Review Board, each college has an academic review board to assist the dean in considering special cases for admission – the purpose being to review select cases with the individual senior college.

A student who has been dropped from the University for the second-time for failure to meet academic requirements may not apply to re-enter until the expiration of one calendar year following the date of the second dismissal, at which time he or she may be allowed to register upon the approval of the Admissions Review Board. Such readmission is generally a last chance admission, and the University is especially concerned to make certain that the student is ready to measure up to the serious responsibility to be faced. Failure will probably mean the end of hopes for a college education. In every instance, the Admissions Review Board must be convinced by evidence rather than verbal assurances that the cause of previous failure has been removed and the prospect for recovery is good.

It must be remembered that it is far more difficult to overcome the effects of a bad academic record than to maintain a good record in the first place. Only when the student's state of mind and personal circumstances are right for making the massive effort can success be expected. In some cases, the record will be clear that the student's abilities line in some other direction and that only frustration and further failure would result from readmission. It is the responsibility of the Admissions Review Board to determine when, if at all, readmission should be granted. He or she may be aided in this by the advice of a faculty screening committee. At any rate, ample time for deliberation is necessary. Such applications must be made well ahead of the proposed re-entry, never less than 30 days prior to the date that classes begin.

# College of Business Administration

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## John A. Williams, Interim Dean

**Mission Statement:** The Mission of the College of Business Administration is to deliver a quality business education to our international, regional, and local communities through teaching, research, service to our stakeholders, and the effective use of technology. We will facilitate economic development and entrepreneurial activity, and adhere to the core values of continuous improvement, high ethical standards, and diversity in the educational environment.

The College of Business Administration offers the following four-year programs of study: accounting; business administration; business administration (computer science option); entrepreneurship; finance; hotel, restaurant, and tourism administration; management; and marketing.

Theoretical and case study methods are employed to develop problem-solving and decision-making abilities which lead to the intellectual growth of business students preparing for positions of responsibility in the community. In order to produce this quality of graduate, the College has the specific objectives of:

1. creating and maintaining curricula which provide a common body of knowledge in the field of business administration as well as a broad liberal arts and science background;
2. instructing in a manner to instill lasting concepts and thinking ability;
3. encouraging faculty research and development to maintain instructional relevancy to the present and future; and
4. maintaining a continuing service to the civic and business community of the greater New Orleans metropolitan area.

## Accreditation

The following undergraduate and graduate programs in business and accounting offered by the College of Business Administration, University of New Orleans, are accredited by the Association to Advance Collegiate Schools of Business (AACSB International):

### **Business, Bachelor of Science Degree:**

Business Administration  
Business Administration (Computer Science Option)  
Entrepreneurship  
Finance  
Hotel, Restaurant, and Tourism Administration  
Management  
Marketing

### **Business and Accounting, Bachelor of Science Degree:**

Accounting

### **Master's Degree:**

Master of Business Administration  
Master of Science in Accounting  
Master of Science in Accounting (Taxation Option)  
Master of Science in Health Care Management  
Master of Science in Hospitality and Tourism

### **Doctoral Degree:**

Ph.D. in Financial Economics

### **Minors in Business**

The following minors in the College of Business Administration are available to all students:

Accounting  
Economics  
Entrepreneurship  
Global Business Studies  
Hotel, Restaurant and Tourism Administration  
Information Systems Management  
Management  
Marketing

Requirements for these minors may be found under each major program description in the College of Business Administration section.

The following minor in the College of Business Administration is available to non-business administration students only:

Business Administration

## Requirements for the Bachelor of Science Degree

Students must earn a minimum of 120 semester hours and at least 50 percent of the business credit hours required for the business degree at the University of New Orleans.

Students transferring from another University are required to take at least 15 hours in their major area in the College of Business Administration at UNO. Those transfer students majoring in Business Administration, including the Computer Science option, must take 21 hours of business courses at UNO, including 18 hours at the junior or senior level.

Students are also held responsible for knowing degree requirements, for enrolling in courses that fit into their degree programs, and for taking courses in the proper sequence to ensure orderly progression of work. Each student is held responsible for notifying the college office of graduation plans at the beginning of the semester preceding the student's final semester. At that point, a degree audit is prepared which

outlines the student's current scholastic position and indicates the course requirements remaining for the degree.

Students in the College of Business Administration are strongly encouraged to complete English 1158 with a C or better and Mathematics 1115 at the earliest possible time in their college career. Several required sophomore-level courses have these courses as prerequisites.

At least 50 percent of a business student's curriculum must consist of coursework outside the College of Business Administration. Nine hours of economics and six hours of business statistics may be counted as non-business courses for this requirement.

In addition to the general degree requirements (listed elsewhere in this catalog), each student must complete the college degree requirements as follows.

## General Education Course Requirements

Courses	Cr. Hrs.
Mathematics 1115 or 1125, 2785	6
Science	9
Must include six hours of one science and three hours of another. One of the sciences must be biology and the other must be chemistry, earth and environmental sciences, or physics.	
English	9
English 1157, and 1158 or 1159 or its equivalent with a grade of C or better, plus three additional hours in literature. Writing courses and courses in grammar will not meet the literature requirement.	
Humanities and Social Sciences	12
Completion of at least six semester hours in each area. Minimum of six hours must be at or above the 2000 level. Economics courses are not viewed as social science courses for business students but rather as business courses. Three hours (Arts) must be selected from fine arts, theater- or dance-related course <sup>1</sup> , or music.	
Arts	3
A student may use no more than three hours credit taken in health and physical education courses, six hours taken in military science courses, six hours taken in religion, or a maximum of six hours combined credit in these three areas. The College of Business Administration accepts up to two hours of credit for ACOR 1001 and 1006 (or equivalents) for non-business electives. HRT majors are required only to take six hours of non-business courses.	

<sup>1</sup>Any literature course in English used to fulfill the literature requirement listed under English above shall not count toward the humanities requirement.

## Business Administration Course Requirements

Courses	Cr. Hrs.
Accounting 2100, 2130 (or 3121 & 3122)	6 (9)
Business Administration 2780	3
Business Administration 3010 <sup>1</sup>	3
Economics 1203, 1204	6
Finance 3300	3
Management 2790, 3401, 3402, 4480 <sup>2</sup>	12
Marketing 3501	3
Quantitative Methods–Business & Economics QMBE 2786, 2787 <sup>3</sup>	4

<sup>1</sup>HRT majors take Hotel, Restaurant and Tourism 3016

<sup>2</sup>HRT majors take Management 3467 in lieu of Management 3402 and

<sup>3</sup>Hotel, Restaurant and Tourism 4000 in lieu of Management 4480

<sup>4</sup>HRT majors are not required to take QMBE 2786 or 2787

A maximum of six credit hours from any of four 1000-level courses: Business Administration 1000, or Economics 1000, or Economics 1273, or Finance 1330, may be used for credit toward a degree in the College of Business Administration unless a particular curriculum has restrictions which supersede this regulation. (Business Administration 1000, Economics 1000, and Finance 1330 are not open to students enrolled in

the College of Business Administration who have completed 30 hours of university credit.)

Additionally, completion of the prescribed course of study in one of the following programs is required for the Bachelor of Science degree. To insure optimum exposure to advanced courses, all students must schedule at least 30 hours of 3000- and/or 4000-level courses.

Transfer credit must be validated when it is substituted for a junior- or senior-level business course if the transfer credit was earned at a lower level than UNO requires for the course it is replacing. Transfer students should contact the college office concerning the procedures to be followed in this process.

All majors in the College of Business Administration must demonstrate their possession of global awareness by passing two courses from the college's list of courses designated as global awareness courses.

A 2.0 average must be earned in all courses taken at UNO and in all courses taken at UNO in the student's major as a requirement for graduation.

## Division of Business and Economic Research

The Division of Business and Economic Research (DBER) facilitates and supports academic research and the publication of research findings in a variety of business fields. The DBER is a member in the Association for University Business and Economic Research, an organization that includes 100 research institutes internationally. By providing a wide range of resources and services to enhance the ability for faculty to conduct quality research, the DBER reinforces the efforts of the College of Business Administration to recruit and retain outstanding faculty and students.

The DBER is a primary participant in the Louisiana Census Data Center network. In this role, it regularly collects and disseminates socioeconomic statistics to private firms and government agencies; provides technical assistance, data analysis, referral services, and data use consultation; and performs and publishes research on demographic and economic characteristics of Louisiana and its component areas.

The results of its quarterly forecasting model of employment by sector and other local indicators for the New Orleans metropolitan area are published in the Metropolitan Report: Economic Indicators for the New Orleans Area. These results are widely used by the New Orleans business community.

The DBER is an authority for economic and demographic information, analysis, and forecasts on the New Orleans area. The DBER staff serves on various community-based boards and committees with special focus on local and state economic and demographic conditions. Together with faculty from the School of Hotel, Restaurant and Tourism Administration, the Hospitality Research Center was formed, which is a Center of Excellence. The Hospitality Research Center has produced a number of tourism and hospitality research studies for local, state and out-of-state clients.

## Hospitality Research Center

The Hospitality Research Center at the University of New Orleans is a collaborative effort of the Division of Business and Economic Research (DBER) and the Lester E. Kabacoff School of Hotel, Restaurant and Tourism Administration (HRT). Each faculty member of the School of HRT has broad experience in the tourism and hospitality industry and has extensive academic preparation. Working together, in cooperation with the professionals in the Division of Business and Economic Research, the UNO DBER/HRT research program is consistently recognized for research productivity in the hospitality field. The function of the Hospitality Research Center is to provide a variety of research services to hospitality and tourism organizations.

## **Institute for Economic Development and Real Estate Research**

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The institute for Economic Development and Real Estate Research combines the resources of the Center for Economic and Community Development and Real Estate Research Center to provide technical assistance and applied research for public, private and nonprofit organizations throughout its service area.

## **Center for Economic and Community Development**

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The Center for Economic and Community Development was established in 1978 as a joint effort of the state and federal government to work cooperatively with local agencies and non-profit organizations to create an environment which encourages economic diversification and growth. The Center at UNO is part of a network of over 65 university center programs funded by the U.S. Department of Commerce, Economic Development Administration throughout the United States which help to direct the technical and human resources of institutions of higher education to their surrounding communities. The Center has been engaged in a wide variety of research and technical assistance programs involving resources from within the College of Business Administration as well as other colleges and community service units at UNO.

The Center assists local community and economic development agencies in preparing strategic plans to direct their growth and development programs and in preparing demographic and market studies of the opportunities that may exist to attract new business and retain and nurture existing firms as well as a variety of economic impact studies. The Center also publishes research bibliographies on various aspects of economic and community development, assists in the preparation of grant applications and sponsors conferences and seminars which present concepts, information and techniques that are helpful to local agencies and non-profit organizations whose focus is economic development at the state, regional or local level. The Center also offers an economic development internship program that allows local organizations to retain the services of graduate research assistants for periods of up to one year to work on specific projects or within a particular program. These internships provide the equivalent of an extended staff member for local organizations that very often have limited resources. The Center's website is [www.ced.uno.edu](http://www.ced.uno.edu).

## **Real Estate Research Center**

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The Real Estate Research Center was established to serve the real estate community as well as the general public. The three main areas of services offered by the Center are professional real estate education, primary real estate market data and contracted research.

The mission of professional real estate education is accomplished through continuing education courses and conferences, including the Annual Economic Outlook and Real Estate Forecast Seminar. These are offered through the College of Business Seminar Series and university courses designed to aid students obtain a professional licenses or certifications as a real estate agent, broker or appraiser.

Primary market data is published in the Metropolitan New Orleans Real Estate Market Analysis annually. It covers real estate market trends in the metropolitan New Orleans region for apartments, office, retail, warehouse and industrial properties. The report also describes current trends for single-family and condominium housing by parish and Multiple Listing System (MLS) neighborhood. This analysis of the real estate market is distributed at the local, state and national levels.

The Center's website is [www.realestate.uno.edu](http://www.realestate.uno.edu).

## **Small Business Development Center**

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The University of New Orleans, along with other area universities, is a collaborative partner of the Louisiana Small Business Development Center (LSBDC) Greater New Orleans Region. The Small Business Development Center (SBDC) was established in 1983 with funding from the U.S. Small Business Administration, Louisiana Economic Development and university support. The LSBDC Greater New Orleans Region is a member of the state-wide SBDC network. SBDC provides business consulting technical assistance and business training for existing or new small businesses in the Greater New Orleans area and the surrounding 10 parish Region including the Bayou Region. Assistance includes business planning, loan package preparation, website development, logo design, marketing, management, research, finding sources of funding, accounting and legal issues. Business training is provided on a variety of topics for a small fee. Business consulting services are free and available by appointment. The SBDC also operates an International Trade Program which supports state-wide development and expansion of import/export businesses and international trade. The SBDC is staffed with an experienced team of business consultants. In addition, faculty, graduate and undergraduate students from area universities assist the small business clients of the SBDC. Student assistance includes business project assistance, paid or unpaid internships, or PT employment. The SBDC is headquartered at the Jefferson Campus on Causeway in Metairie and has satellite offices throughout the Region. The SBDC website is [www.lsbdc.org](http://www.lsbdc.org).

## **Major Programs**

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### **Bachelor of Science Degree in Accounting**

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#### **Department of Accounting Mission**

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The mission of the Department of Accounting is to provide programs, at both the undergraduate and graduate levels, that prepare our students for careers as professional accountants in public practice, industry, and other areas, and for advancement into graduate programs. We will do this by maintaining high academic standards, superior teaching, quality research, significant service, and the effective use of technology. We recognize the importance of continuous improvement, high ethical standards, and diversity in the educational environment.

#### **Statement of Goals**

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1. The Department will provide intellectual contributions that benefit the academic and professional communities.
2. The Department of Accounting faculty will provide accounting instruction in support of our departmental mission.
3. The Department will provide service to national, regional and local professional associations and to the University and local communities.

#### **Goals of Bachelor of Science in Accounting**

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- Students will demonstrate a proficiency in financial accounting and governmental accounting concepts.
- Students will demonstrate a proficiency in auditing concepts.
- Students will demonstrate a proficiency in individual income taxation concepts.
- Students will demonstrate a proficiency in managerial accounting and information systems concepts.
- Graduates will demonstrate the effective use of computers and information technology.
- Graduates will demonstrate a proficiency in conducting auditing, financial accounting, and tax research.

## Accreditation

In addition to college-wide accreditation, the Bachelor of Science in Accounting and the Master of Science in Accounting programs are separately accredited by AACSB International.

## Admissions Requirements

College of Business Administration students are eligible to declare a major in accounting if they have thirty semester hours earned and an overall average of 2.2 or higher on all work taken prior to declaring an accounting major.

The Department of Accounting ordinarily requires 15 hours of accounting courses to be taken in residence at UNO in order to receive an undergraduate degree in accounting. The accounting faculty strongly urges students with less than a 3.0 GPA not to take more than six hours of accounting per semester.

### CURRICULUM IN ACCOUNTING

#### Non-College of Business Administration

Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)	6
English Literature*	3
Humanities * <sup>1,2</sup>	6
Arts	3
Mathematics 1115 or 1125, 2785*	6
Non-Business Electives*	10
Sciences*	9
Social Sciences* <sup>1</sup>	6
Total	49

#### College of Business Administration

Course Requirements	Cr. Hrs.
Business Administration 2780, 3010, 3021	9
Business Electives <sup>3</sup>	3
Economics 1203, 1204	6
Finance 3300	3
Management 2790, 3401, 3402, 4480	12
Marketing 3501	3
Quantitative Methods-B&E 2786, 2787	4
Total	40

Accounting Course Requirements	Cr. Hrs.
Accounting 2100 <sup>5</sup> , 3120, 3121 <sup>5</sup> , 3141	10
Accounting 3122 <sup>5</sup> , 3123, 3124, 3131, 3152, 3161	18
Accounting Elective <sup>4</sup>	3
Total	31
Grand Total	120

\*See General Education Course Requirements in the section on University Regulations.

<sup>1</sup>At least six hours of Social Sciences or Humanities must be at or above the 2000 level.

<sup>2</sup>Accounting majors must satisfy a public speaking requirement. This can be accomplished by taking Film, Theatre and Communication Arts 2650 as a humanities elective or Management 3474 as a business elective.

<sup>3</sup>May be 4000-level accounting course.

<sup>4</sup>Must be 4000-level course.

<sup>5</sup>A "C" or better required in each

## LOUISIANA CPA EXAMINATION REQUIREMENTS

Louisiana candidates sitting for the CPA examination must meet the 150-hour education requirement of the State Board of CPAs of Louisiana. This requirement includes 150 hours of college credit from an accredited university, including a bachelor's degree. Students may

fulfill this requirement by completing one of the Master of Science in Accounting programs at UNO or by completing the certification program as described below.

## Certification of Completion of CPA Exam Courses for Louisiana

Outlined below are two options offered to students who wish to meet the 150-hour requirement to take the CPA Examination. These options will lead to a UNO Certificate Completion of CPA Exam Courses for Louisiana if the student's grade-point average for courses taken under the selected option is 2.0 or better and a total of 150 hours of college-level courses. They are intended to be an alternative to, rather than a replacement for, the Master of Science in Accounting programs. Persons pursuing this certificate should already have earned a Bachelor's degree and have completed at least 120 semester hours of college-level course work. It is the responsibility of the student to insure that courses taken qualify for credit toward this certificate.

### OPTION A (30 hours)<sup>1</sup>:

This option is for accounting majors who plan to sit for the CPA examination and who wish to improve their skills in accounting and nonaccounting courses.

Accounting<sup>1</sup> – Accounting 3120 plus six to 15 hours at the 3000 level or higher (in addition to courses taken in regular program)

Nonaccounting courses – 24-15 hours in the same department with at least 15 hours at the 3000 level or above, including Business Administration 3021.

### OPTION B<sup>2</sup>:

This option is for students who have an undergraduate major in some field other than accounting, who wish to meet the State Board of Louisiana CPAs accounting and business course requirements in order to sit for the CPA examination.

Accounting<sup>2</sup> – 28 hours including Accounting 2100, 3120, 3121, 3122, 3123, 3124, 3131, 3152, 3161, and three hours of accounting electives selected from Accounting 3141, 4132, 4152, 4153, 4162.

Business courses – 24 hours including Business Administration 3021, Economics 1203 and 1204 or 4400, Finance 3300 or 4400, Management 3401 or 4400, Marketing 3501 or 4400, Quantitative Methods – Business and Economics 4400, Business Administration 2780.

Note: Courses numbered 4400 cannot be used for an undergraduate degree in the College of Business Administration.

The two options listed above satisfy the State Board of CPAs of Louisiana requirements to sit for the CPA exam. These requirements can also be satisfied by a graduate degree, such as a Master of Science in Accounting, Master of Science in Accounting – Taxation Option, or Master of Business Administration. For other options see the Rules of the State Board of Certified Public Accountants of Louisiana.

<sup>1</sup>At least 12 hours of accounting must be taken at UNO.

<sup>2</sup>At least 18 hours of accounting must be taken at UNO.

## Minor in Accounting

Students may earn a minor in accounting by completing 19 hours of accounting courses with a cumulative GPA of 2.0 or better in all accounting courses attempted. Twelve hours of these accounting courses must be completed at UNO with a cumulative GPA of 2.0 or better. The following accounting courses comprise the minor in accounting: Accounting 2100, 3120, 3121, 3122, 3131, and six hours of accounting electives from accounting courses open to accounting majors for degree credit. Three of the six hours of accounting electives must be 3000 level or above. Accounting 2130 may not be used for credit toward the minor in accounting.

## Honors in Accounting

To graduate with Honors in Accounting the following requirements must be fulfilled:

- Complete the usual requirements for accounting majors.
- Maintain a minimum cumulative grade point average of 3.5 in

accounting courses and 3.25 overall.

- Complete a minimum of six credit hours in non-business courses.
- Complete at least six credit hours of honors coursework in accounting beyond Accounting 2100.
- Complete a Senior Honors Thesis (six credit hours). These six credit hours replace Accounting (three credit hours) and Business (three credit hours) course electives. Acceptance of thesis depends on successful oral defense.

**CURRICULUM IN BUSINESS ADMINISTRATION**

**Non-College of Business Administration**

Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)*	6
English Literature*	3
Humanities* <sup>1</sup>	6
Arts	3
Mathematics 1115 or 1125, 2785	6
Non-Business Electives	11
Sciences*	9
Social Sciences* <sup>1</sup>	6
<b>Total</b>	<b>50</b>

**College of Business Administration**

Course Requirements	Cr. Hrs.
Accounting 2100, 2130	6
Business Administration 2780, 3010	6
Economics 1203, 1204	6
Finance 3300	3
Management 2790, 3401, 3402, 4480	12
Marketing 3501	3
Quantitative Methods–Business & Economics 2786, 2787	4
<b>Total</b>	<b>40</b>

**Major Course Requirements**

	Cr. Hrs.
Accounting or Finance Elective	3
Business Administration 1000 or Business Elective <sup>2</sup>	3
Marketing or Hotel, Restaurant & Tourism Elective	3
Business Electives <sup>3</sup>	21
<b>Total</b>	<b>30</b>
<b>Grand Total</b>	<b>120</b>

\*See General Education Course Requirements in the section on University Relations.

<sup>1</sup>At least six hours must be at or above the 2000-level.

<sup>2</sup>May request the substitution of an upper-level business course.

<sup>3</sup>Of the 21 hours of business electives, a maximum of nine hours may be taken in any one field, and 12 hours must be at the junior or senior level. Also, 15 of the 21 hours must be taken at UNO and all 21 must be completed with a C average or better.

**CURRICULUM IN BUSINESS ADMINISTRATION:  
COMPUTER SCIENCE OPTION**

**Non-College of Business Administration**

Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)*	6
English Literature*	3
Humanities* <sup>1</sup>	6
Arts	3
Mathematics 1115 or 1125, 2785	6
Non-Business Electives	5
Sciences*	9
Social Sciences* <sup>1</sup>	6
<b>Total</b>	<b>44</b>

**College of Business Administration**

Course Requirements	Cr. Hrs.
Accounting 2100, 2130	6
Business Administration 1000 or Business Elective	3
Business Administration 3010	3
Economics 1203, 1204	6
Finance 3300	3
Management 2790, 3401, 3402, 4480	12
Marketing 3501	3
Quantitative Methods–Business & Economics 2786, 2787	4
Business Electives	15
<b>Total</b>	<b>55</b>

**Business Administration Computer Science Option**

Course Requirements	Cr. Hrs.
Accounting 3141 or Management 3778	3
Business Administration 2780	3
Computer Science 1060 or 1201 or 1583/1581	3
Computer Science 2103 <sup>2</sup> or Management 3788	3
Computer Science 36012 or Management 4730	3
Computer Science 36112 or Management 4750	3
Marketing 3510	3
<b>Total</b>	<b>21</b>
<b>Grand Total</b>	<b>120</b>

\*See General Education Course Requirements in section on University Regulations.

<sup>1</sup>At least six hours must be at or above the 2000-level.

<sup>2</sup>An equivalent computer science course may be substituted with consent. One of these three courses must be computer science of the 21 hours of computer science/information technology related courses, 15 hours must be taken at UNO and all 21 hours must be completed with a C average or better.

**Honors in Business Administration**

In addition to the regular curriculum requirements listed in the catalog, a Business Administration major wishing to graduate with honors must achieve the following:

1. maintain a 3.25 overall grade point average.
2. maintain a 3.50 grade point average in the business courses used for the 21 hour business electives requirement (15 hours for Computer Science Option).
3. complete a senior honors thesis (six semester hours) or project to be determined by agreement among the student, a faculty member in the appropriate discipline who will supervise the project, and the Director of the University's Honors Program. The student will be permitted to enroll in whatever business major field he or she has chosen (such as Accounting 3999 or Economics 3099, for example) for thesis purposes.
4. perform satisfactorily on an oral examination defending the thesis/project.
5. students exercising the Computer Science Option must also have a 3.50 grade point average in the seven computer-related courses required.

**Minor in Business Administration**

Non-business students wishing to minor in Business Administration may do so by completing the following courses with a minimum letter grade of C or better in each course: Accounting 2100 or 4400, Business Administration 3010 or 3080 or 4400, Economics 1203 or 2200 or 4400, Finance 2302 or 3300 or 4400, Management 3401 or 4400, and Marketing 3501 or 4400.

## Minor in Global Business Studies

Students may earn a minor in Global Business Studies by completing 18 credit hours from the following courses with a minimum letter grade of C or better in each course: Economics 4306 or Finance 4306, Management 4446, Marketing 4546; Hotel, Restaurant and Tourism 2050; Business Administration 4048; Hotel, Restaurant and Tourism 4250; Economics 4261; and Accounting 4126.

## Department of Economics and Finance Mission

The mission of the Department of Economics and Finance is to provide high quality education to undergraduate students in the college and university; to engage in research and intellectual activities commensurate with a doctoral granting department, and to provide services to continuously improve the local, regional, and global communities of our stakeholders.

## Minor in Economics

Students wishing to minor in Economics may do so by completing the following required courses and electives in Economics with a grade of C or better in each course: Economics 1203, 1204, and 2221 plus nine hours of electives from economics courses at the 3000 or higher level.

### CURRICULUM IN FINANCE

#### Non-College of Business Administration

Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)*	6
English Literature*	3
Humanities* <sup>1</sup>	6
Arts	3
Mathematics* 1115 or 1125, 2785 <sup>2</sup>	6
Non-Business Electives*	8
Sciences*	9
Social Sciences* <sup>1</sup>	6
Total	47

#### College of Business Administration

Course Requirements	Cr. Hrs.
Accounting 2100 <sup>3</sup> , 31213, 3122	9
Business Administration 2780, 3010	6
Economics 1203, 1204, 2221	9
Management 2790, 3401, 3402, 4480	12
Marketing 3501	3
QMBE 2786, 2787	4
Business Electives	6
Total	49

#### Finance Course Requirements

Course Requirements	Cr. Hrs.
Finance 3300, 3302, 3303 or 3321, 4304	12
Finance electives	12
Total	24
Grand Total	120

\*See General Education Course Requirements in the section on University Regulations.

<sup>1</sup> At least six hours must be at or above the 2000 level.

<sup>2</sup> Students interested in pursuing graduate studies in finance should take at least one year of calculus.

<sup>3</sup> A "C" or better required in each.

Students may elect a finance concentration. Concentrations consist of a sequence of THREE upper division finance elective courses designed to assist students in achieving a statewide or nationally recognized certificate. Students must receive a grade of C or better in all concentration courses to be awarded a finance concentration. Certain

certifications may require additional courses and training. All certificates require individuals to pass certification test(s) administered by the issuing organization.

#### Concentration

	Certificate/Issuing Body
Financial Planning	Certified Financial Planner (CFP)/ Certified Financial Planning Board
Financial Analyst	Chartered Financial Analyst (CFA)/ CFA Institute
Financial Services	Certified Treasury Professional (CTP)/Association for Financial Professionals
Real Estate	License to Sell Real Estate—Louisiana Real Estate Commission Certificate (SRPA, MAI)/Appraisal Institute

### Financial Planning Concentration:

The Concentration in Financial Planning is designed for students interested in becoming a Certified Financial Planner (CFP). A CFP manages all aspects of the financial planning process including Personal Financial Planning, Insurance Planning, Investment Planning, Estate Planning, Income Tax Planning and Retirement Planning. Students must have a four year college degree and complete CFP approved coursework in each planning area for CFP certification. In partial fulfillment of both certified CFP course requirements and finance degree requirements students pursuing this concentration must complete:

- FIN 4311 (Insurance Planning and Risk Management)
- FIN 4312 (Retirement Planning) and
- FIN 4310 (Personal Financial Planning).

### Financial Analyst Concentration:

The Financial Analyst Concentration is designed for students interested in becoming a Chartered Financial Analyst (CFA). CFA is a widely recognized designation in the investment community which focus on the areas of institutional portfolio management and investments analysis. To sit for a CFA exam, candidates must have a four year college degree, be in their final year of their undergraduate studies, or have a combination of approved course work and professional experience. Each of the CFA level exams requires significant preparation. This concentration integrates portions of the CFA's Candidate Body of Knowledge (CBOK) into course curriculum. Students pursuing this concentration must complete:

- FIN 4306 (International Finance)
- FIN 4307 (Portfolio Analysis) and
- FIN 4308 (Derivatives Analysis).

### Financial Services Administration Concentration

The Concentration in Financial Services is designed for students interested in working in the financial services industry and/or becoming a Certified Treasury Professional (CTP) exam. A treasury professional works in various roles in an organization including money management, corporate finance, accounting, risk management and corporate governance. Students pursuing this concentration must complete:

- FIN 3303 (Financial Institutions)
- FIN 3321 (Bank Administration)
- FIN 4222 (Money and Capital Markets) and
- FIN 4322 (Cash and Liquidity management)

Students that complete FIN 4222 will be eligible to take the CTP exam.

### Real Estate Concentration

The Concentration in Real Estate is designed for students interested in pursuing a license to sell real estate in Louisiana or becoming a certified real estate appraiser. Student pursuing this concentration must complete:

FIN 2335 (Principles of Real Estate)  
 FIN 3366 (Income Property Analysis), and  
 FIN 3368 (Real Estate Finance).

HRT electives	12
Total	<u>34</u>
Grand Total	120

### Minor in Finance

Students wishing to minor in Finance may do so by completing the following required courses and electives with a grade of C or better in each course: Finance 3300, 3302, 4304 plus nine hours of Finance electives.

### Honors in Finance

To graduate with honors in Finance, the student must fulfill the following requirements in addition to the usual requirements for a major:

1. a minimum cumulative grade-point average of 3.5 in finance courses and a 3.25 grade-point overall;
2. at least six hours of honors coursework in finance;
3. a senior honors thesis or project in Finance 3099. The thesis or project is to be determined by mutual agreement with the student, a faculty member who will supervise the project, and a departmental member of the University Honors Committee. The student will perform satisfactorily on an examination defending the thesis or project. Six hours of thesis credit must be completed.

## School of Hotel Management and Tourism

### Lester E. Kabacoff School of Hotel, Restaurant and Tourism Administration Mission

The Lester E. Kabacoff School of Hotel, Restaurant and Tourism Administration (HRT) strives to provide HRT graduates with the skills and background which will prepare them for entry level management positions within the hospitality and tourism industries. Students have the ability to custom design their curricula by selecting HRT concentrations and business minors. Graduates will obtain a solid business background as well as a comprehensive understanding of the tourism and hospitality industries.

#### CURRICULUM IN HOTEL, RESTAURANT AND TOURISM ADMINISTRATION

##### Non-College of Business Administration

Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)*	6
English Literature*	3
Humanities*	6
Arts	3
Mathematics* 1115 or 1125, 2785*	6
Non-Business Electives*	8
Sciences*	9
Social Sciences*	6
Total	<u>47</u>

##### College of Business Administration

Course Requirements	Cr. Hrs.
Accounting 2100, 2130	6
Business Administration 2780	3
Economics 1203, 1204	6
Finance 3300	3
HRT or Business Electives	6
Management 2790, 3401, 3467, 3778	12
Marketing 3501	3
Total	<u>39</u>

##### HRT Course Requirements

	Cr. Hrs.
HRT 2000, 2030	6
HRT 3002, 3011, 3016, 3017, 3140, 4000	16

\*See General Degree Requirements.

Students may elect to take a nine credit hour concentration plus one Hotel, Restaurant and Tourism three credit hour elective. Students, if they wish, may elect a concentration in Tourism; Convention and Event Management; Hotel and Lodging Management; or Food and Beverage Management by completing the appropriate Hotel, Restaurant and Tourism courses as their Hotel, Restaurant and Tourism electives.

### Tourism Concentration

Hotel, Restaurant and Tourism 2050, 3150, 3290 or 3295 or 4250.

### Convention and Event Management Concentration

Hotel, Restaurant and Tourism 2070, 3290 or 3295 or 4290.

### Hotel and Lodging Management Concentration

Hotel, Restaurant and Tourism 2020, 4120, 3290 or 3295 or 4290. It is recommended that students take Hotel, Restaurant and Tourism 3141 as one of their business core electives.

### Food and Beverage Management Concentration

Hotel, Restaurant and Tourism 3141, 3145, 3290 or 3295, 4230. It is recommended that students take Hotel, Restaurant and Tourism 3141 and either Hotel, Restaurant and Tourism 3150, 3240, 3290, 4120, 4155, 4250, or 4290 as their business core electives.

### Minor in Hotel, Restaurant, and Tourism Administration

Students must complete 18 credit hours in Hotel, Restaurant, and Tourism Administration with a letter grade of C or better in all courses as follows: Hotel, Restaurant and Tourism 2000 and choose six credit hours from HRT 2020, 2030, 2050, and 2070. In addition, students must have nine credit hours at the 3000 or 4000 level.

### Honors in Hotel, Restaurant and Tourism Administration

To graduate with honors in Hotel, Restaurant and Tourism Administration, the following requirements must be fulfilled:

1. Completion of the requirements for a Bachelor of Science in Hotel, Restaurant, and Tourism Administration.
2. Maintain a cumulative grade point average of at least 3.5 in the Hotel, Restaurant, and Tourism Administration courses, and a minimum overall grade point average of 3.25.
3. Completion of a Senior Honors Thesis, which includes earning six hours of credit for Senior Honors Thesis.
4. Arrange for a faculty member in the relevant discipline to direct the thesis.
5. Receive approval from the director of the Honors Program to register for Senior Thesis credit.
6. Register for the course hours required by the School of Hotel, Restaurant, and Tourism Administration for Senior Honors Thesis.
7. Give an oral defense of the thesis to a committee composed of the thesis director, a member of the faculty selected by the director of the School of Hotel, Restaurant, and Tourism Administration, and a representative of the Honors Program.

### Department of Management Mission

The Department of Management is dedicated to the development of managerial skills—analytical and interpersonal—which will enable students to succeed in a competitive international workplace. The department's primary mission, therefore, is to provide quality management education for undergraduate and graduate students by utilizing current management thought incorporated in an experience-based learning environment. A second component of the department's mission is

the pursuit of a balanced approach that encourages and rewards both applied and basic research. Finally, the Department of Management faculty is committed to training and development at all levels of organizational life as part of its applied curriculum.

### CURRICULUM IN MANAGEMENT

#### Non-College of Business Administration

Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)	6
English Literature*	3
Humanities* <sup>1</sup>	6
Arts	3
Mathematics 1115 or 1125, 2785	6
Non-Business Electives*	17
Sciences	9
Social Sciences* <sup>1</sup>	6
Total	56

#### College of Business Administration

Course Requirements	Cr. Hrs.
Accounting 2100, 2130	6
Business Administration 2780, 3010	6
Business Electives	6
Economics 1203, 1204	6
Finance 3300	3
Marketing 3501	3
QMBE 2786, 2787	4
Total	34

#### Management Course Requirements

Course Requirements	Cr. Hrs.
Management 2790, 3401, 3402, 3778, 4480	15
Management Electives <sup>2</sup>	15
Total	30
Grand Total	120

\* See General Education Course Requirements in the section on University Regulations.

<sup>1</sup> At least six hours must be at or above the 2000 level.

<sup>2</sup> Must be 3000 or 4000 level courses.

#### Entrepreneurship Concentration

The Concentration in Entrepreneurship requires the completion of Finance 3301, Business Administration 4056, and six hours selected from the following: Management 3070, 3071, 4057, 4058, Business Administration 3056, 3090, 3091, 4076, or Finance 4222 in lieu of 12 hours of business and management electives. The Entrepreneurship Concentration is designed to develop an awareness of the fundamentals of starting and owning one's own business.

#### Management Information Systems Concentration

The Concentration in Management Information Systems requires the completion of Management 3778, and twelve additional hours selected from Management 4730, 4735, 4740, 4750 and 4760 taken in lieu of management elective courses. The Concentration is designed to prepare the student for entry into a career or graduate study in the area of information systems. Students taking the Management Information Systems concentration may not minor in Information Systems Management.

#### Human Resource Management Concentration

The Concentration in Human Resource Management requires the completion of Management 3467, 4468, 4469 and 4470. The Human Resource Management Concentration is designed to prepare the student for a career or graduate study in the area of personnel/ human resource management.

#### Minor in Management

Students wishing to minor in management may do so by completing 18 credit hours in management courses at or above the 3000 level with a letter grade of C or better in each course.

#### Minor in Entrepreneurship

Students wishing to minor in entrepreneurship may do so by completing 18 credit hours in entrepreneurship. The student must take Business Administration 4056, Finance 3301, and four additional entrepreneurship courses to be chosen from Business Administration 1001, 3056, 3090, 3091, 4076, Management 3070, 3071, 4057, 4058, or Finance 4222. A grade of C or better must be received in each course.

#### Minor in Information Systems Management

Students wishing to minor in Information Systems Management may do so by completing 18 credit hours in approved management information systems courses. Students must take Management 3778, 3788 and four of the following: Management 4710, 4730, 4735, 4740, 4750, 4760, and Accounting 4142. A grade of C or better must be received in each course. Students taking the minor in Information Systems Management may not have a concentration in Management Information Systems.

#### Honors in Management

To graduate with Honors in Management, the following requirements, in addition to the usual requirements for the major, must be fulfilled.

1. maintain a minimum cumulative grade-point average of 3.5 in management courses and a 3.25 grade-point overall;
2. complete at least six hours of honors course work in management;
3. complete a six-hour senior honors thesis, Management 3099.

### CURRICULUM IN ENTREPRENEURSHIP

#### Non-College of Business Administration

Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)	6
English Literature*	3
Mathematics 1115 or 1125, 2785	6
Sciences*	9
Humanities **	6
Arts	3
Social Sciences**	6
Non-Business Electives*	11
Total	50

#### College of Business Administration

Course Requirements	Cr. Hrs.
Accounting 2100, 2130	6
Business Administration 2780, 3010	6
Economics 1203, 1204	6
Finance 3300	3
Marketing 3501	3
Quant. Methods-B&E 2786, 2787	4
Management 2790, 3401, 3402, 4480	12
Business Electives	6
Total	46

#### Entrepreneurship Course Requirements

Course Requirements	Cr. Hrs.
Business Administration 3001, 3056, 4056, 4076	12
Finance 3301	3
Entrepreneurship Electives***	9
Total	24
Grand Total	120

\* See General Education Requirements in the section on University Regulations.

\*\*At least 6 hours must be at or above the 2000 level.

\*\*\*To be selected from BA 1001, BA 3090, BA 3091, MANG 3070, MANG 3071, MANG 4057, MANG 4058, FIN 4222, or electives approved by the Department of Management. Students interested in entrepreneurial ventures in a particular area are encouraged to seek approval for electives in their areas of interest from the Department of Management.

must have grade-point averages of at least 3.25 overall and 3.5 in marketing courses and must have permission of the department and the Honors Program director. Before graduation, the student must take six hours of Senior Honors Thesis (Marketing 3599) resulting in an acceptable honors thesis.

## Department of Marketing and Logistics Mission

The mission of the Department of Marketing and Logistics is to provide an intellectual environment to support the educational needs of students pursuing knowledge of marketing in a global marketplace.

### CURRICULUM IN MARKETING

#### Non-College of Business Administration

Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)*	6
English Literature*	3
Humanities* <sup>1</sup>	6
Arts	3
Mathematics* 1115 or 1125, 2785	6
Sciences*	9
Social Sciences* <sup>1</sup>	6
Non-Business Electives*	11
Total	<u>50</u>

#### College of Business Administration

Course Requirements	Cr. Hrs.
Accounting 2100, 2130	6
Business Administration 2780, 3010	6
Business Electives	9
Economics 1203, 1204	6
Finance 3300	3
Management 2790, 3401, 3402, 4480	12
QMBE 2786, 2787	4
Total	<u>46</u>

#### Department of Marketing and Logistics

Course Requirements	Cr. Hrs.
Marketing 3501, 3505, 3510, 4580, 4590	15
Marketing Electives <sup>1</sup>	9
Total	<u>24</u>
Grand Total	<u>120</u>

\*See General Education Course Requirements in the section on University Regulations.

<sup>1</sup> At least six hours must be at or above 2000 level.

Student must achieve a C or better in all required courses in the marketing major and a C average overall.

#### Sales Concentration

The Concentration in Sales requires the completion of Marketing 3515, 3530, 3580 and 4585 (Marketing Internship).

#### Minor in Marketing

Students wishing to minor in marketing may do so by completing 18 credit hours in marketing courses at or above the 3000 level with a letter grade of C or better in each course. The student must take: Marketing 3501, 3505, 3510, and a minimum of three additional marketing courses at the 3000 or 4000 level.

#### Honors in Marketing

An honors program is available to superior students majoring in marketing. Successful completion of the program results in graduation with Honors in Marketing. For admission to the program a student

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# College of Education and Human Development

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## James Meza, Jr., Dean

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The mission of the College of Education and Human Development is to improve teaching and leadership, advance life-long learning, and promote health and wellness through enhanced community partnerships.

The College accomplishes this mission through:

- Baccalaureate, Master's and Doctoral programs of study
- Interaction of practice and theory
- Inclusive practice among diverse populations
- Proactive efforts to optimize health and wellness across the lifespan
- Involvement at local, state, national and international levels
- Generation and dissemination of applied, basic and sponsored research
- Application of current and advanced technology
- Mutually beneficial partnerships to enhance communities and improve school

## Accreditation

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The College of Education and Human Development is fully accredited by the National Council for Accreditation of Teacher Education (NCATE), and its certification programs are approved by the Louisiana Board of Elementary and Secondary Education (BESE) and the Louisiana Board of Regents. A list of the certification programs offered by the college that are nationally recognized by Specialty Professional Associations affiliated with NCATE may be found at the college web site (<http://www.ed.uno.edu/>).

## Organization of the College

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Three academic departments comprise the College of Education and Human Development: Department of Curriculum and Instruction, Department of Educational Leadership, Counseling, and Foundations, and the Department of Special Education and Habilitative Services. The Department of Curriculum and Instruction offers undergraduate degrees, and all departments offer a variety of graduate degree programs. Core coursework (noted as EDUC) is offered to support the teacher education program. In addition to the departments, there are several research, innovation, and service units in the college. A complete listing of current funded programs is available at the college web site (<http://www.ed.uno.edu/>).

## Programs of Study

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The College of Education and Human Development offers teacher education programs at the undergraduate and graduate levels. The

following table provides an overview of each certification and degree option offered in teacher education. These programs are described below in this section of the catalog.

In addition to initial certification programs, the College of Education and Human Development offers several advanced-level programs of study focused on the needs of teachers, school leadership personnel, counselors, community and health agency personnel. These programs are described on the college web site at <http://www.ed.uno.edu/>.

## Teacher Education Program Options

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### Undergraduate

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**Field Experience:** completed in assigned settings

**Capstone Clinical Practice:** requires nine hours of student teaching taken in one semester

**Candidate Assessment:** All pathways require completion of coursework with satisfactory GPA as well as successful performance on 6-8 key program assessments including the exit PRAXIS examination (PLT)

**Outcome:** Candidates exit with degree and initial certification

### Minor

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**Admission:** must major in specific liberal arts or science areas

**Program of Study:** 21 hours (exclusive of student teaching)

**Field Experience:** completed in assigned settings

**Capstone Clinical Practice:** requires nine hours of student teaching or six hours of internship taken in one semester for certification to be awarded

**Candidate Assessment:** All pathways require completion of coursework with satisfactory GPA as well as successful performance on 6-8 key program assessments including the exit PRAXIS examination (PLT)

**Outcome:** all candidates exit with minor, those who complete student teaching exit with certification

### Master of Arts in Teaching (MAT)

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**Admission:** must meet graduate school, GRE, GPA and PRAXIS requirements

**Program of Study:** 36-39 credit hours

**Field Experience:** completed in assigned settings and/or in employment setting

**Capstone Clinical Practice:** requires nine hours of student teaching or six hours of internship taken in one semester

**Candidate Assessment:** All pathways require completion of

coursework with satisfactory GPA as well as successful performance on 6-8 key program assessments including the exit PRAXIS examination (PLT)

**Outcome:** candidates exit with degree and initial certification

### Master of Education (MEd)

**Admission:** must meet graduate school requirements including GRE and hold teacher certification

**Program of Study:** 36 credit hours

**Field Experience:** completed in assigned settings and/or in employment setting

**Capstone Clinical Practice:** no student teaching or internship required

**Candidate Assessment:** All pathways require completion of coursework with satisfactory GPA as well as successful performance on 6-8 key program assessments including the exit PRAXIS examination (PLT)

**Outcome:** candidates exit with degree which may include add-on certification

### Practitioner

**Admission:** selective admission in cooperation with employing school district

**Program of Study:** 21 credit hours

**Field Experience:** completed in assigned settings and employment setting

**Capstone Clinical Practice:** requires six hours of internship taken in two semesters

**Candidate Assessment:** All pathways require completion of coursework with satisfactory GPA as well as successful performance on 6-8 key program assessments including the exit PRAXIS examination (PLT)

**Outcome:** candidates exit with initial certification (max of 12 credits may be applied to MEd program)

## Teacher Education Programs

All colleges and universities in Louisiana recently redesigned teacher education and school leader preparation programs in response to state and federal improvement initiatives. These initiatives, collaboratively supported by the Louisiana Board of Regents and the Louisiana Board of Elementary and Secondary Education (BESE), are largely aligned with the Blue Ribbon Commission on Educational Excellence and the No Child Left Behind Act. It is critical that candidates remain aware of any changes to a particular program of study. Current information is available through the college office or on the college web site at <http://www.ed.uno.edu/>.

The Teacher Education Program prepares teachers who will render high quality, professional service in preschool, elementary, middle, secondary schools, and other educational settings. The College's programs are grounded in a performance-based curriculum model aligned with the unit's conceptual framework that supports teachers in the performance of six critical teacher roles and responsibilities:

1. designing and delivering instruction,
2. advocating for students and services,
3. providing support for group practice,
4. managing time, tasks, and environments,
5. using inquiry to inform practice, and
6. improving school and system practice.

The teacher education program is dedicated to understanding and valuing diversity among faculty, staff, and students. The college utilizes the academic resources of the university and community schools to provide candidates with a broad general education and a concentrated content-area education. Professional preparation, together with the relationships of the study of education to other

fields of knowledge, is the responsibility of the College of Education and Human Development.

The College of Education and Human Development administers all curricula designed for the preparation of teachers. Three programs are offered for initial teacher certification, one at the undergraduate level and the others at the graduate level. Graduate options include the Master of Arts in Teaching (MAT) and the Practitioner program.

## Objectives of Teacher Education Programs

Candidates in teacher education programs at UNO are expected to:

1. Develop a background of knowledge in general education and one or more academic content areas.
2. Develop an awareness of teaching as a profession, which includes an understanding of how teachers promote individual student achievement, school improvement, school and district accountability, and long term professional development.
3. Develop an awareness of the relationship between socio-cultural factors and the educative process, which includes developing the ability to communicate effectively with students, parents, other site-based professionals, and persons representing community agencies.
4. Understand, identify, assess, and make plans to accommodate the individual student's emotional, social, physical, and intellectual needs.
5. Demonstrate skills aligned with the Louisiana Components of Effective Teaching, relevant Louisiana Content Standards, national standards aligned with Specialty Professional Associations, and other curriculum reform initiatives in planning, implementing, and assessing instruction and its impact on student learning.
6. Plan instruction that correlates with the Louisiana Educational Assessment Program (LEAP 21).
7. Plan, deliver, and assess instruction that integrates a variety of electronic software applications and related technologies.
8. Acquire and apply skills of classroom management and interpersonal relationships that enhance the educational environment and promote student learning.
9. Demonstrate dispositions expected of effective educators as documented through field experience in school settings.

The University of New Orleans Teacher Education Program is designed using an inquiry-based conceptual framework to support the preparation of reflective practitioners. Information about the conceptual framework may be found on the college web site at <http://www.ed.uno.edu/>. Following are the key elements of the Teacher Education program of study.

1. Performance-based. The program of study moves beyond simply aligning specific competencies with specific courses. Rather, it supports teacher candidates in the repeated use of competencies in different ways according to the changing demands of students and teaching environments. This model ensures that teachers can produce effective outcomes for their students and for the schools in which they teach.
2. Role-focused. A performance based program focuses on teachers being competent in performing the multiple roles associated with effective teaching. These roles are aligned with the Louisiana Components of Effective Teaching.
3. Thematic content. The program of study is designed for key content related to teaching performance (e.g., assessment) to be addressed at multiple points rather than in singular courses.
4. Sequenced field activities. Opportunity to practice targeted competencies in schools is critical to a performance based program. An effective program of study includes well-crafted field experiences that increase in demand and complexity as the candidate moves through the program.

5. Authentic evaluation. The UNO teacher education program utilizes an electronic professional portfolio as the key tool for evaluating teacher effectiveness and content mastery. All teacher education candidates are required to purchase a Live Text account to support the development of an electronic portfolio. Information on Live Text may be found at <http://www.ed.uno.edu/>. Performance review takes place at distinct points during each program of study in order to identify both professional strengths and areas of need. Multiple perspectives are incorporated into the evaluation process.
6. Induction Support. The portfolio format used in the teacher education program is designed to assist program graduates in aligning their work with state and national standards as required by their employing district during the induction period of service.

## Undergraduate Teacher Education Pathway

Three grade-level certification options are offered at the undergraduate level: Early Childhood (Pre-Kindergarten - Grade 3), Elementary (Grades 1- 5), and Secondary (Grades 6-12) in a specific content area. Secondary content areas include: English, mathematics, social studies, and science (Biological Sciences, Chemistry, or Earth Sciences). The College of Education and Human Development also offers Elementary-Secondary (Kindergarten - Grade 12) certification programs in Music (vocal) and Music (instrumental). An option is available for candidates in the elementary (grades 1-5) program to address certification requirements for both elementary as well as special education in mild/moderate disabilities for the same grade level. The Integrated to Merged program option requires candidates to complete a student teaching with both general and special education experiences and complete additional PRAXIS examinations and performance requirements for special education certification.

The undergraduate teacher education program of study is divided into four tiers, each associated with a specific block of coursework and set of related field experiences. As the candidate moves from one tier to the next, the scope of the content and field work becomes more complex. Candidate progression from one tier to the next is dependent upon satisfaction of certain criteria, including satisfactory completion of required coursework, satisfactory completion of required field experiences, and meeting all candidate assessment requirements specified for that particular phase (tier) of the program of study. Throughout the program of study, candidates develop a professional portfolio that contains artifacts resulting from coursework and field activities. The candidate organizes the various artifacts as evidence that specific program competencies have been met. Thus, candidate performance is measured via course grades as well as authentic evidence that knowledge, skills, and dispositions related to effective education can be demonstrated in school and classroom settings.

### Admission to and Retention in the College of Education and Human Development (Tier II)

To be admitted to the College of Education and Human Development, a student must have met the following criteria:

2. Completed a minimum of 24 hours of coursework with at least a 2.2 grade-point average.
1. Completed a Candidate Acknowledgement Form.
1. Received a Curriculum Program Sheet approved by an Academic Counselor in the College of Education and Human Development.
1. Successfully completed Education 1010, including associated field activities.

All candidates in a program of study resulting in certification must also be admitted to a teacher education program (see requirements below). All candidates must submit official transcripts from each college and university attended. One transcript with all transfer credits

is not acceptable. This is a requirement for all candidates pursuing initial certification.

The Teacher Education Review and Retention Committee reserves the right to review the candidate's total academic record, evidence of knowledge, skills, and dispositions and other qualifications as they relate to the candidate's potential as an effective teacher.

In view of its responsibility to the teaching profession, the College of Education and Human Development will continuously evaluate the qualifications of a candidate to determine his or her suitability to continue in a teacher education program.

Each candidate is held responsible for knowing degree requirements, for enrolling in courses that fit into his or her degree program, and for taking courses in the proper sequence to ensure orderly progression of work. The candidate is also held responsible for knowing University regulations regarding the standard of work required to continue in the University, as well as the regulations dealing with scholastic probation and enforced withdrawal.

### Admission to and Retention in the Teacher Education Program (Tier III)

In addition to the requirements and regulations stated in Undergraduate Teacher Certification: Admission to and Retention in the College of Education and Human Development, applicants for admission to a teacher education program must:

1. Have a grade-point average of 2.5 or higher for a minimum of 45 credits.
2. Take and receive passing scores on the PRAXIS I or ACT (22 Composite Score) or SAT (1030 Verbal & Math). The College office must have official scores.
3. Complete an application to the Teacher Education Program.
4. Complete Education 2000, 2100, 2200 and 2204 (secondary requirement) and associated field activities or their equivalents.
5. Pass the Core Performance Assessment for the teacher education program.
6. Complete dispositions review with a satisfactory rating.
7. Complete English 1158 with a grade of "C" or higher with credit in English 1157.
8. Complete a mathematics course at or above the 1000 level approved by the College of Education and Human Development.
9. Report required field experience hours.
10. Complete individualized prescriptive plan if applicable.

### Requirements for Field Experience

Teacher education candidates complete a variety of field activities as they progress through the program of study. The field activities provide opportunities for candidates to demonstrate skills associated with effective teaching in diverse school and classroom settings. Each of the four tiers in the program requires a specific minimum number of field experience hours and completed field activities which must be reported. Specific information on field experience requirements may be found at the college web site at <http://www.ed.uno.edu/>.

### Requirements for Student Teaching (Tier IV)

Application for student teaching must be submitted to the Office of Field Experiences and Clinical Practice during Tier III one semester prior to beginning the student teaching semester (Tier IV). Candidates expecting to student teach in the fall semester must apply on or before January 31. Candidates expecting to student teach in the spring semester must apply on or before August 31.

A candidate will only be permitted to enroll in student teaching (9 hours) and EDUC 4000 (3 hours) during the student teaching semester. Candidates are permitted to schedule student teaching when they have met the following requirements:

1. Completion of all other courses in the certification and degree

- program except for student teaching and EDUC 4000 (early childhood, elementary, and music education) or the second methods course appropriate to the secondary certification area which must be taken concurrently with student teaching.
2. The attainment of senior standing in a Teacher Education Program in the College of Education and Human Development with a minimum grade point average of 2.5.
  3. Completion of all courses in professional education with a grade of "C" or higher. A minimum grade of "C" is required for all courses in the early childhood and elementary programs. Candidates in secondary education and combined elementary-secondary education must also complete all courses in the major teaching field with a grade of "C" or higher. Candidates must meet or exceed GPA requirements for their specific certification area.
  4. Pass Tier III performance requirements for the certification area pursued.
  5. Complete disposition review with a satisfactory rating.
  6. Approval of the Director of Field Experiences.
  7. Transfer candidates must have completed all Tier III course-work in residence at UNO.
  8. Complete individualized prescriptive plan if applicable

Note: The College of Education and Human Development recommends that candidates take PRAXIS II examinations one semester prior to student teaching.

### Requirements for Program Completion and Graduation

A candidate must meet all the requirements for a degree outlined in one catalog. A candidate may elect any catalog in force during his or her enrollment at the University, provided enrollment is continuous. A candidate who breaks enrollment (either voluntarily or by compulsion) for two consecutive semesters may not elect a catalog earlier than the one in force at the time of re-entry. Under no circumstances may a catalog more than 10 years old be used.

Candidates pursuing degree programs that include Louisiana teacher certification should note that certification requirements are mandated by the Louisiana Board of Elementary and Secondary Education. When the State Board makes changes in certification requirements, the content of associated degree programs change accordingly. For this reason, candidates in the College of Education and Human Development are expected to maintain close communication about degree and certification requirements through a College Academic Counselor or Faculty Advisor throughout their program of study.

A candidate may graduate from the College of Education and Human Development upon satisfactory fulfillment of the following requirements:

1. Completion of the general degree requirements of the University.
2. Completion of the requirements for a bachelor's degree in either early childhood, elementary, secondary, or elementary-secondary education.
3. Performance at the acceptable or higher level on all program assessments and demonstration of all required performances and dispositions via a successful review of a professional portfolio and related evidence.
4. For candidates in early childhood and elementary education:
  - a. A minimum grade of "C" in all courses.
  - b. Achievement of an overall grade point average of 2.5.
  - c. Meet or exceed content/performance GPA for specific content area.
5. For candidates in secondary and elementary secondary education:
  - a. minimum grade of "C" in each course in professional education and in each course in the academic content area(s).
  - b. Achievement of an overall grade-point average of 2.5 and a 2.0 grade-point average in professional education and the

- academic content area(s).
- c. Meet or exceed content/performance GPA for specific content area.
6. Candidates seeking teacher certification through a baccalaureate degree program must take and pass PRAXIS subject assessment(s) and content area test(s) and the Principles of Learning and Teaching prior to program completion and graduation.

### Louisiana Teacher Certification

In addition to the graduation requirements listed above, a candidate must meet the following requirements of the State of Louisiana in order to be eligible for a Louisiana teacher's certificate.

1. Be admitted to and graduate from a state approved teacher education program. (Teacher education programs in the College of Education and Human Development at the University of New Orleans are state approved).
2. Achieve a minimum grade point average of 2.5.
3. Pass all specified PRAXIS Series Examinations.
4. Receive a recommendation for certification by the assistant dean in the College of Education and Human Development.

### Transfer Students

Transfer credits will be valid for degree completion if the course content matches the content and/or performances of a course in the College of Education and Human Development curriculum. Transfer credit will not be awarded for Tier III coursework. The College may require the validation of credits earned more than five years prior to a candidate's admission to the College in order to approve the transfer of credits into a degree program. Candidates are required to enter artifacts into Live Text to document their performance of competencies aligned with transfer coursework. Candidates transferring into the program should also note the provisions in the section, "Requirements for Student Teaching."

### Honors Degree in Education

An Honors Degree in Education is available to qualified majors and open (but not limited to) candidates enrolled in University Honors. The Honors Degree in Education is available for students majoring in Early Childhood, Elementary, Elementary Integrated to Merged, Secondary Education, and Elementary Secondary Education.

To graduate with Honors in Education, education majors must successfully complete the following:

1. Fulfill the usual requirements for education majors.
2. Maintain a minimum cumulative grade-point average of 3.5 in professional courses and 3.25 overall.
3. Maintain a 3.25 grade-point average in teaching major.
4. Establish an Honors Advisory Committee consisting of two College of Education and Human Development faculty members and one faculty member from the teaching major.
5. Complete a minimum of three semester hours in course work approved by the Honors Advisory Committee.
6. Complete successfully a six-hour Honors Thesis (Curriculum and Instruction 3999) approved by the Honors Advisory Committee.
7. Perform satisfactorily in an oral examination of an honors thesis in education.

### Requirements for Bachelor's Degree in Early Childhood Education Certification in Grades Pre-Kindergarten through Third

A grade below "C" will not be accepted for candidates seeking Early Childhood certification.

The curriculum in Early Childhood education has five components:

1. general education,
2. focus area,

3. knowledge of the learner and the learning environment,
4. methodology and teaching, and
5. special education.

**College of Education and Human Development  
Course Requirements**

	Cr. Hrs.
Curriculum and Instruction 3140, 3150, 3160, 3400, 3410, 3425, 3340, 3440, 3500, 3510, 3520, 3530, 3540,	39
Education 1010, 2000, 2100, 2200, 3000, 3001, 3100, 3110, 4000	24
Education 4950	9
Human Performance 2320	3
Library Science 3100	3
Special Education 3610, 3611, 3620, 3621, 3640, 3641	9
<b>Total</b>	<b>87</b>

**Non-College of Education and Human Development  
Course Requirements**

	Cr. Hrs.
English 1157 and 1158 (or 1159)	6
English Literature	6
Mathematics 1021 and 1023 and 1031 or 1115	9
Biological/Physical Science	12
Geography 1001 or 1002	3
History 2501 or 2502	3
Arts	3
<b>Total</b>	<b>42</b>
<b>Grand Total</b>	<b>129</b>

**Requirements for Bachelor's Degree in  
Elementary Education Certification in Grades  
One Through Five**

A grade below "C" will not be accepted for candidates seeking elementary certification. The curriculum in Elementary Education has five components:

1. general education,
2. focus area,
3. knowledge of the learner and the learning environment,
4. methodology and teaching, and
5. special education.

**College of Education and Human Development  
Course Requirements**

	Cr. Hrs.
Curriculum and Instruction 3140, 3150, 3160, 3400, 3410, 3425, 3340, 3440, 3540,	27
Education 1010, 2000, 2100, 2200, 3000, 3001, 3100, 3110, 4000	24
Education 4910	9
Human Performance 2320	3
Library Science 3100	3
Special Education 3610, 3611, 3620, 3621, 3640, 3641	9
<b>Total</b>	<b>75</b>

**Non-College of Education and Human Development Course  
Course Requirements**

	Cr. Hrs.
English 1157 and 1158 (or 1159)	6
English Literature	6
Mathematics 1021, 1023, 1115, 2314	12
Biological/Physical Science	12
Science Elective	3
Geography 1001 or 1002	3
History 2501 or 2502	3
Political Science	3
Anthropology, Economics, or Sociology	3
Arts	3
<b>Total</b>	<b>54</b>
<b>Grand Total</b>	<b>129</b>

**Requirements for Bachelor's Degree in  
Elementary Education**

**Integrated to Merged Approach with Certification in General  
Education and Special Education Mild/Moderate Disabilities  
Grades One Through Five**

The curriculum in the Integrated to Merged Elementary option has five components:

1. general education,
2. focus area,
3. knowledge of the learner and the learning environment
4. methodology and teaching, and
5. special education.

**College of Education and Human Development  
Course Requirements**

	Cr. Hrs.
Curriculum and Instruction 3140, 3150, 3160, 3340, 3400, 3410, 3425, 3440	24
Education 1010, 2000, 2100, 2200, 3001, 3100, 3110, 4000	21
Education 4970	9
Library Science 3100	3
Special Education 3610, 3620, 3640, 3650, 3660	15
<b>Total</b>	<b>72</b>

**Non-College of Education and Human Development  
Course Requirements**

	Cr. Hrs.
English 1157, 1158 (or 1159)	6
English Literature	6
Mathematics 1021, 1023, 1115, 2314	12
Biological/Physical Science	12
Science Elective	3
Geography 1001 or 1002	3
History 2501 or 2502	3
Political Science	3
Anthropology, Economics, or Sociology	3
Arts	3
<b>Total</b>	<b>54</b>
<b>Grand Total</b>	<b>126</b>

**Requirements for Bachelor's Degree in Secondary  
Education**

**Certification in Grades 6 - 12**

The curricula in secondary education have five components:

1. general education,
2. focus area(s),
3. knowledge of the learner and the learning environment,
4. methodology and teaching, and
5. special education.

Most programs of studies require a primary and secondary focus area. The primary focus area is the area for which certification is desired. The program of study includes sufficient coursework, in addition to the requirement to pass the PRAXIS examination in the primary focus area, to result in a teaching certificate.

Secondary (Grades 6 - 12) certification are as offered include:

1. Biology
2. Chemistry
3. English
4. Earth Science
5. Math
6. Social Studies

Any of the certification areas listed above can be selected as a secondary focus area. The length of the program of study will vary

according to the combination of primary and secondary focus areas selected. Candidates should consult with a College of Education and Human Development Academic Counselor or refer to the college web site at <http://www.ed.uno.edu/> for detailed information regarding each program of study.

### Minor in Secondary Education

The College of Education and Human Development offers a minor in Secondary Education for students from the College of Liberal Arts and the College of Sciences. The requirements of the minor are as follows:

1. Completion of the requirements for a degree in English, History, mathematics, Biology, Chemistry, or Earth Sciences with a minimum grade of C in each course in the academic content area.
2. A total of 21 credit hours in the College of Education and Human Development with a grade of C or better in each of the following courses:  
Education 2204 (4)  
Education 3100 (3)  
Curriculum and Instruction 3310 (3) and 3311 (1)  
Curriculum and Instruction 4432 (3)  
Curriculum and Instruction 4620 (3)  
Curriculum and Instruction 4220, 4240, 4250, or 4260 (3) and 4201 (1)
3. Take and receive passing scores on the PRAXIS I, ACT, or SAT
4. Pass all required performance assessments and disposition reviews.

Students seeking teacher certification as part of their baccalaureate program must also:

1. Take and pass the PRAXIS II content area test(s) and the principles of Learning and Teaching test.
2. Successfully complete a student teaching experience: Education 4920 (9) and Curriculum and Instruction 4221, 4241, 4251, or 4261 (3) for certification in English, Mathematics, Sciences, and Social Studies respectively.

Students who fulfill the requirements of the minor in Secondary Education but are unable to complete the additional requirements for certification prior to graduation may enroll in the college's alternative certification program to complete the requirements for certification within two years.

### Requirements for Bachelor's Degree in Elementary-Secondary Education

Curricula in this category are designed for students preparing to teach in specified areas, grades K-12. The curricula in secondary education have three major components: I. General Education; II. Professional Education; III. Academic Specialization.

A total of not less than 128 semester hours is required for graduation.

#### Requirements for Bachelor's in Music Education Certification in Instrumental Music

College of Education Course Requirements	Cr. Hrs.
Curriculum and Instruction 4432	3
Education 1010, 2000, 2100, 2200	12
Education 3000, 3001, 3110, 3100	9
Education 4000 and 4930	12
Total	36
<hr/>	
Non-College of Education Course Requirements	Cr. Hrs.
English 1157 and 1158 (or 1159)	6
English Literature	6
History 2501 and 2502	6
Mathematics 1031 and 1032	6
Music 1101, 1102, 1705, 1706, 1707, 1708	16
Music 2005, 2101, 2102, 2103, 2104, 2111, 2112, 2201, 2202	19

Music 3111, 3112, 3383, 3385, 3950	8
Music (Applied Lessons)	14
Music 1908/1910/4908/4910	7
Music 1900 (required each semester for full time students)	0
Music 1901	2
Music 1909 (required each semester for full time students)	0
Physical Science	3
Science-Biology 1053, 1042 and 1063	8
Total	101
Grand Total	137

1. Candidates wishing to be admitted into the program must present a prepared audition demonstrating their potential for the successful completion of the required classes and the required public recital.
2. The major instrument will normally be selected from strings, brass, woodwinds, or percussion. A keyboard instrument may be selected provided that the candidate can play a band or orchestra instrument well enough to perform with one of the instrumental ensembles for the required number of semesters. The student must complete a minimum of 14 hours (7 semesters) of applied instruction and present a half recital (Music 3950).
3. As a requirement for graduation, candidates will be required to satisfy the faculty that they have reached an acceptable level of professional competence on the major instrument in both sight-reading and prepared performance. This evaluation will be based on active participation in the recital hour, ensembles, and performance before a faculty jury each semester that they are enrolled in private instruction.
4. All Instrumental Music Education majors must enroll in and fulfill the requirements for Music 1900 (Recital Hour) and Music 1909 (Music Education Forum) each semester that they are a full-time student, with the exception of the student teaching semester.
5. All candidates must meet the following requirements in addition to those listed above:
  - a. Musicianship through Music 2104 or equivalent as determined by placement examination
  - b. A minimum level of keyboard proficiency is required for successful completion of the program. Candidates must pass a proficiency examination. Candidates may elect to take Class Piano (Music 1407 and 1408) or applied lessons to prepare for the examination.
  - c. A minimum of seven credits in performing groups is required for graduation. Full-time candidates must enroll in one performing group (Music 1902 or 1908) each semester, excluding the student teaching semester, even though the seven hour requirement may have been fulfilled. Any student, whether part-time or full-time, who is enrolled in Applied Music Courses must enroll in a performing group.
6. Refer to "Admission to a Teacher Education Program" for requirements necessary for admission to the Teacher Education Program.

#### Requirements for Bachelor's in Music Education Certification in Vocal Music

College of Education Course Requirements	Cr. Hrs.
Curriculum and Instruction 4432	3
Education 1010, 2000, 2100, 2200	12
Education 3000, 3001, 3110, 3100	9
Education 4000 and 4930	12
Total	36
<hr/>	
Non-College of Education Course Requirements	Cr. Hrs.
English 1157 and 1158 (or 1159)	6
English Literature	6
History 2501 and 2502	6

Mathematics 1031 and 1032	6
Music 1101, 1102, 1709, 1710	14
Music 2005, 2101, 2102, 2103, 2104, 2111, 2112, 2201, 2202	19
Music 3111, 3112, 3382, 3384, 3950	8
Music 4310	2
Music (Applied Lessons)	14
Music 1904/1905/4904/4905	7
Music 1900 (required each semester for full time students)	0
Music 1909 (required each semester for full time students)	0
Physical Science	3
Science-Biology 1053, 1042 and 1063	8
Total	99
Grand Total	135

1. Candidates wishing to be admitted into the program must present a prepared audition demonstrating their potential for the successful completion of the required classes and the required music proficiencies.
2. Candidates will be required to satisfy the faculty that they have reached an acceptable level of professional competence in both sight-reading and prepared performance. This evaluation will be based on active participation in the recital hour, ensembles, and performances before a faculty jury each semester that they are enrolled in private instruction.
3. All Instrumental Music Education majors must enroll in and fulfill the requirements for Music 1900 (Recital Hour) and Music 1909 (Music Education Forum) each semester that they are a full-time student, with the exception of the student teaching semester.
4. The applied major for this curriculum will be either voice or piano. The candidate must complete a minimum of 14 hours (7 semesters) of applied instruction and present a half recital (Music 3950). Voice majors must demonstrate a minimum proficiency in piano by passing a proficiency examination. Students may elect to take Class Piano (Music 1407 and 1408) or applied lessons to prepare for the examination. Piano majors must demonstrate a minimum proficiency in voice by passing a proficiency examination. Candidates may elect to take applied lessons to prepare for the examination.
5. All candidates must meet the following requirements in addition to those listed above:
  - a. Musicianship through Music 2104 or equivalent as determined by placement examination
  - b. A minimum of seven credits in performing groups is required for graduation. Full-time students must enroll in one performing group (Music 1904, 1905, 1906, or 1950) each semester, excluding the student teaching semester, even though the seven-hour requirement may have been fulfilled. Any student, whether part-time or full-time, who is enrolled in Applied Music Courses must enroll in a performing group.
6. Refer to "Admission to a Teacher Education Program" for requirements necessary for admission to the Teacher Education Program.

### Minor in Secondary Education

The College of Education and Human Development offers a minor in Secondary Education for students from the College of Liberal Arts and the College of Sciences. The requirements of the minor are as follows:

1. Completion of the requirements for a degree in English, History, Mathematics, Biology, Chemistry, or Earth Sciences with a minimum grade of C in each course in the academic content area.
2. A total of 21 credit hours in the College of Education and Human Development with a grade of C or better in each of the following courses:  
Education 2204 (4)  
Education 3100 (3)

- |   |
|---|
| Curriculum and Instruction 3310 (3) and 3311 (1)                      |
| Curriculum and Instruction 4432 (3)                                   |
| Curriculum and Instruction 4620 (3)                                   |
| Curriculum and Instruction 4220, 4240, 4250, or 4260 (3) and 4201 (1) |
| Take and receive passing scores on the PRAXIS I, ACT, or SAT          |
| Pass all required performance assessments and disposition reviews.    |

Students seeking teacher certification as part of their baccalaureate program must also:

1. Take and pass the PRAXIS II content area test(s) and the Principles of Learning and Teaching test
2. Successfully complete a student teaching experience:  
Education 4920 (9) and Curriculum and Instruction 4221, 4241, 4251, or 4261 (3) for certification in English, Mathematics, Sciences, and Social Studies respectively.

Students who fulfill the requirements of the minor in Secondary Education but are unable to complete the additional requirements for certification prior to graduation may enroll in the college's Graduate Non-degree alternative certification program to complete the requirements for certification within four (academic year) semesters.

### Graduate Alternate Certification Pathway

Three options for obtaining teacher certification are offered at the graduate level. The Master of Arts in Teaching (MAT) degree is designed to offer candidates with a bachelor degree outside the field of education an opportunity to address the requirements of an initial level teaching certificate within a Master's degree program. The Graduate Alternate certification program is designed to provide all of the coursework and experiences necessary to obtain Louisiana certification without pursuing an academic degree. The Practitioner Program is designed to assist new teachers in gaining certification on a "fast track" schedule. Admission to this program is restricted as candidates are selected by the employing school district.

### Master of Arts in Teaching

**Programs of Study:** Two Master of Arts in Teaching (MAT) are offered. The Masters of Arts in Teaching in Curriculum and Instruction offers certification in early childhood (PreKindergarten – grade 3), elementary (grades 1-5), middle grades (grades 4-8) in English, math, science, and social studies, secondary (grades 6-12) in English, math, social studies, biology, chemistry, earth science, general science, and physics.

The Master of Arts in Teaching in Special Education offers certification in deaf/hard of hearing (grades 1-12), early intervention (birth – age 5), significant disabilities (grades 1-12) and mild/moderate disabilities (grades 1-5, 4-8 and 6-12). The mild/moderate disabilities certification is offered through an Integrated to Merged program which results in certification in mild/moderate disabilities and in elementary (grades 1-5), middle grades (grades 4-8), or secondary education (grades 6-12). Note that certification in middle school and secondary is specific to one content area.

The Master of Arts in Teaching program requires 36-39 graduate credit hours in the following areas: learner and the learning environment, teaching methodology, literacy, research, and internship/student teaching. Details of the program of study for each certification option may be found at the college website at <http://coehd.uno.edu/Programs/>.

**Admission:** In addition to the admission requirements established by the Graduate School which include an overall grade point average of 2.5 and a satisfactory score on the Graduate Record Examination (GRE), candidates must achieve passing scores on PRAXIS I as well as the relevant PRAXIS II subject assessment. PRAXIS I is not required for candidates with an ACT composite score of 22, an SAT (verbal and

math) score of 1030, or who already have a Master's degree. The College office must have official scores. All candidates must submit official transcripts from each college and university attended. One transcript with all transfer credits is not acceptable. All initial advising for this program occurs via the College of Education and Human Development Academic Counselors. Following initial advising, candidates are advised by a Faculty Advisor in the Department of Curriculum and Instruction or the Department of Special Education and Habilitative Services for the duration of their program of study.

### **Field Experience Requirements**

Throughout the program, candidates complete field activities in school and classroom settings. Field work is supported in two ways: through assigned work associated with individual classes and within a student teaching (9 credits) or internship (6 credits) experience taken at the end of the program of study. Field experience opportunities support candidates in meeting all national and state standards associated with their certification area. The program includes specific requirements for the number and type of field experience hours that must be completed as well as for the development of an electronic portfolio that aligns artifacts resulting from field work with specific professional standards. More information on field experience requirements may be found at the college website at <http://coehd.uno.edu/Programs/>.

### **Requirements for Completing Program**

All certification programs in the College of Education and Human Development are performance-based. Candidates develop a professional portfolio to document the knowledge, skills, and dispositions associated with effective teaching. Completion of the program of study requires successful performance in coursework, field experience, and candidate assessments specific to the area of study. In addition to assessments associated with specific courses in the program, candidates must pass a final assessment to complete the program and be recommended for a teaching certificate. More information on candidate assessment and program progression requirements may be found at the college website at <http://coehd.uno.edu/Programs/>.

### **Louisiana Teacher Certification**

Candidates who successfully complete all program requirements are recommended to the Louisiana Department of Education for a teaching certificate. All conditions listed above under "Louisiana Teacher Certification" must be satisfied. Candidates enrolled in this program while teaching may be eligible for a Practitioner License upon recommendation by the hiring school district.

### **Graduate Non-Degree Alternate Certification Only**

#### **Certification Areas Offered**

Certification areas include Secondary (grades 6-12) in a specific content area and Special Education – significant disabilities (grades 1-12). The secondary education program is only open to UNO graduates who completed the Minor in Secondary Education without completing the Student Teaching requirement. Secondary content areas include: English, mathematics, social studies, and science (Biology, Chemistry, Earth Science, General Science, and Physics). The Special Education – Significant Disabilities program of study assists candidates in applying content and skills within school settings while completing coursework. The pace of the program ranges from one to three years, depending on the number of credit hours taken. Candidates enrolled in the Graduate Alternate Certification Program while teaching on a Practitioner License must complete the program of study within three years.

Specific requirements for the Graduate Non-Degree Certification program may be found at <http://coehd.uno.edu/Programs/>.

### **Practitioner Certification Option**

#### **Program Admission**

Enrollment in the Practitioner Certification program is restricted to candidates jointly selected by university and school district personnel. Candidates must have an agreement for employment by a participating school district for the subsequent school year. Admission takes place in the spring via a formal application process. Admission to this program requires an overall grade point average of 2.5 and passage of PRAXIS I (or ACT (22 Composite Score) or SAT (1030 Verbal & Math) and PRAXIS II content examination in the desired certification area. The College office must have official scores. PRAXIS I is not required for candidates who already have a Master's degree. All candidates must submit official transcripts from each college and university attended. One transcript with all transfer credits is not acceptable. This is a requirement for all candidates pursuing initial certification. More information on the admission process may be found at the college website at <http://www.ed.uno.edu/>.

#### **Program of Study**

The Practitioner program is only offered in high-need certification areas including middle (grades 4-8) and secondary (grades 6-12) mathematics, middle grade science and secondary biology, chemistry, chemistry, earth science, general science, and physics, and special education – mild/moderate disabilities. The special education certificate is offered within an Integrated to Merged program of study that results in dual certification in middle or secondary education as well as special education – mild/moderate disabilities in the same grade level. The program begins with an intensive 9-semester-hour block of coursework and field activities in the summer. During the initial year of teaching, candidates enroll in 3 semester hours of course-work during both the fall and spring semesters. Concurrently, candidates enroll in 3 semester hours of internship during each semester. Additional coursework and internship hours may be prescribed based on candidate performance. More information on the program of study may be found at the college website at <http://www.ed.uno.edu/>.

#### **Field Experience Requirements**

Throughout the program, candidates complete field activities in school and classroom settings. Field work is supported through enrollment in an internship taken during the fall and spring semesters during the first year of teaching. Candidates meet in cohort groups to receive support on field activity completion and evaluation. Candidates must successfully pass assessment requirements to advance from the summer portion of the program to the fall semester and from the fall portion of the program to the spring semester. Each semester of the program requires a specific minimum number of field experience hours. More information on field experience requirements may be found at the college website at <http://www.ed.uno.edu/>.

#### **Requirements for Completing Program**

All certification programs in the College of Education and Human Development are performance-based. Candidates develop a professional portfolio to document their ability to demonstrate knowledge, skills, and dispositions associated with effective teaching. Completion of the program of study requires successful performance in both coursework and applied field activities. Candidates must also complete one year of successful teaching in the desired certification area to be recommended for teacher certification. More information on candidate assessment and program progression may be found at the college website at <http://www.ed.uno.edu/>.

#### **Louisiana Teacher Certification**

Candidates who successfully complete all program requirements are recommended to the Louisiana Department of Education for certification award. All conditions listed above under "Louisiana Teacher

Certification” must be satisfied. Candidates enrolled in this program receive a Practitioner License Certificate during their program of study.

### **Continuation of Program of Study to Receive a Master’s Degree**

Dependent on performance, candidates may apply a portion of the coursework completed for certification toward a Master of Education degree. Additional information on this option may be found at the college website at <http://www.ed.uno.edu/>.

### **PRAXIS Requirements for All Teacher Education Candidates**

All candidates pursuing initial teaching certification must successfully pass three types of PRAXIS examinations prior to program completion and recommendation for certification. The point in time that the candidate takes each examination varies according to the certification program option pursued. The following describes when each PRAXIS test is taken:

#### **PRAXIS I PPST**

Undergraduate Program: Prior to Admission to Tier III (Teacher Education Program)

Graduate Alternate Certification (Master of Arts in Teaching, Non-Degree, and Practitioner): Must be passed prior to admission to the program

#### **PRAXIS II**

Undergraduate Program: Content area taken prior to Tier IV (Student Teaching)

Must be passed prior to graduation

Graduate Alternate Certification Master of Arts in Teaching, Non-Degree, and Practitioner): Must be passed prior to admission to the program

#### **PRAXIS II**

Principles of Learning & Teaching

Undergraduate Program: Must be passed prior to graduation

Graduate Alternate Certification Master of Arts in Teaching, Non-Degree, and Practitioner: Must be passed prior to graduation or completion of the program

### **Add-On Certification Option**

The College of Education and Human Development offers several programs of study that result in an additional area of certification. These programs are designed for candidates who already hold a current Louisiana Teaching Certificate. More information on these programs of study may be found at the college website <http://www.ed.uno.edu/>.

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# College of Engineering

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## Norma Jean Mattei, Interim Dean

The College of Engineering offers undergraduate degree programs in civil engineering, electrical engineering, mechanical engineering, and naval architecture and marine engineering. These curricula provide an opportunity for professional career training in the traditional fields of engineering, and preparation for industrial employment or graduate studies.

The undergraduate degree programs in engineering provide a broad engineering education in preparation for:

- Professional employment, mainly as civil, electrical, mechanical engineering, naval architecture and marine engineering in design, development, production, operation, and sales, or
- Graduate study in the various fields of engineering and the physical sciences.

Emphasis is placed on fundamentals in the basic fields followed by applications in the areas of engineering design and planning.

## Accreditation

The following undergraduate programs in engineering offered by the College of Engineering, University of New Orleans, are accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 –telephone: (410) 347-7700.

### Bachelor of Science Degree in:

1. Civil Engineering
2. Electrical Engineering
3. Mechanical Engineering
4. Naval Architecture and Marine Engineering

## Admission to the College of Engineering

All engineering freshmen admitted to the university enter in a pre-engineering classification. This classification begins with the letter “P” (e.g., pre-electrical engineering is PENEE). Students remain in this classification until they meet the admission requirements of the College. In general, students will be admitted to the College of Engineering if they meet the following criteria:

1. Complete a minimum of:
  - a. 12 semester hours of non-remedial coursework with at least a 3.0 grade-point average on both UNO and all work attempted, or
  - b. 18 semester hours of non-remedial coursework with at least a 2.5 grade-point average on both UNO and all work attempted, or

- c. 24 semester hours of non-remedial coursework with at least a 2.2 grade-point average on both UNO and all work attempted.
2. Completed appropriate courses in algebra and trigonometry or equivalent advanced placement to qualify for registration in a first course in calculus.
3. Completed 24 credits with an overall 2.5 GPA for new transfer students from colleges and universities other than UNO.

## Requirements for the Baccalaureate Degree

The degree of Bachelor of Science in Engineering may be granted upon satisfactorily meeting the following requirements:

1. Completion of a program of study selected from the following four fields: civil engineering, electrical engineering, mechanical engineering, and naval architecture and marine engineering.
2. Approval of all electives by the College of Engineering.
3. Completion of all University General Degree Requirements.
4. Obtain a cumulative grade-point average of 2.0 (“C” average) in:
  - a. all courses attempted anywhere, at any time (this requirement includes all transfer work, whether applicable to a particular degree or not);
  - b. all work taken at UNO;
  - c. all engineering courses, completed at UNO or elsewhere;
  - d. the major subject
  - e. the last 60 hours before graduation.

Because of the continually evolving curricula in the four major engineering disciplines: civil, electrical, mechanical engineering, and naval architecture and marine engineering, students are strongly encouraged to complete degree requirements as stated in an official curriculum that is in effect one year prior to their expected date of graduation.

The latest curriculum will always be the one most “up-to-date,” reflecting technological developments and criteria established by ABET, the national accrediting board for engineering curricula.

At the beginning of the semester prior to graduation (e.g. the Fall semester, if planning to graduate in Spring), the student should complete a Graduation Verification Sheet with the college advisor. The student must have it approved by his/her Department Chair. This process ensures that the student’s final transcript meets all requirements for the baccalaureate degree in the chosen field. It should, however, be noted that it is the student’s responsibility to assure that all the requirements for graduation are met.

## Dual-Degree Program with Xavier, SUNO, Loyola, Dillard

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The University of New Orleans (UNO) has established a cooperative dual degree also known as 3+2 program in physics/engineering. The program is five years in length and leads to a Bachelor of Science degree in Physics from the cooperating university and a Bachelor of Science degree in engineering from UNO. Students attend the cooperating university for three years, majoring in physics, and then transfer to UNO for two additional years, concentrating in one of the four professional engineering degree programs: civil, electrical, mechanical, or naval architecture and marine engineering. Students are awarded the two baccalaureate degrees upon completion of the five-year program.

### Program Requirements:

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During the first three years of the program the student takes basic arts and sciences courses. The student is then eligible to pursue UNO's B.S. degree curricula in engineering. (Registration, in writing, at the UNO College of Engineering is required.) Students will not be permitted to graduate under catalogs dated prior to the date of actual written UNO registration. At the time of registration the student will receive advising necessary to direct and complete the program. The student must be admitted to UNO and to the College of Engineering (not pre-engineering) for the last 60 hours of the engineering degree. Cross-registered courses taken before admission to the College of Engineering do not count in the 60 hours. Students not admitted before the last 60 hours will be considered as transfer students, not as dual degree or 3+2 students. General degree requirements must be completed before the baccalaureate degrees can be awarded. For details, contact the College office.

Credits gained at the two institutions will be mutually accepted. Engineering courses completed at UNO will be counted, in part, as electives in the physics program, and physics courses taken will be counted, in part, as electives in the UNO engineering programs. To be eligible for UNO's B.S. degree curricula in engineering, junior-year students must have a 2.5 grade-point average (on a 4-point system). Students must earn a grade of 2.0 or better in UNO in all science and mathematics courses, a 2.0 or better in UNO engineering courses, and a 2.0 or better in all courses taken during the last 60 hours of courses offered for degrees.

### Academic Program Planning

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Students must schedule counseling sessions at regular intervals to develop a program of study within the constraints of the various options which is best suited to accomplish their goals for a professional career in engineering or for advanced study. Advantage should be taken of the specific expertise of various faculty members in the traditional and contemporary fields of engineering. Counseling will involve pre-advising (twice a year, toward the end of the spring and the fall semesters), and providing information on particular programs.

A normal semester course load for a student holding no outside employment is 15-18 hours. Deficiencies or unsatisfactory grades may require the student to attend summer school or to extend the time of study beyond the normal four-year period. No student may register for more than 19 hours without consent of the dean (See Maximum and Minimum Work) and no student on academic probation may enroll in more than 13 hours. New freshmen are strongly advised to limit their initial registration to 15 hours. All students are expected to become familiar with the general education requirements, attendance regulations, grade point requirements, and rules concerning the maintenance of good academic standing appearing elsewhere in this catalog.

### Electives

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Non-science and engineering electives should be chosen so as to satisfy the particular requirements for the student's major. Duplication

of subject matter should be avoided. Degree credit will not be given for courses covering subject matter similar to that in a course for which the student has already earned credit.

### Honors in Engineering

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An honors program is available to superior students. Successful completion of the program results in graduation with honors in civil, electrical, mechanical, or naval architecture and marine engineering.

In order to be eligible for the program, a student must have been admitted to the College of Engineering, have junior or senior standing, and must have achieved an overall grade point average of at least 3.2. Approval of the College of Engineering and the Director of the Honors Program is also required.

To qualify for a bachelor's degree with departmental honors, the student must:

- Earn a cumulative grade point average (GPA) of at least 3.5 in the departmental courses, and a minimum overall grade point average of 3.2
- Complete a senior honor thesis, which encompasses a senior level research or design project equivalent to six hours of degree credit
- To complete a senior honors thesis, a student must:
- Arrange for a faculty member in the relevant discipline to direct the thesis
- Receive approval from the Director of the Honors Program to register for senior thesis credit
- Register for the course hours required by the department for a Senior Honors Thesis
- Give an oral defense of the thesis to a committee composed of the thesis director, a member of the faculty selected by the chair of the department in which the thesis is written, and a representative of the Honors Program
- Participation in a departmental honors program does not increase the total number of hours needed for the completion of a particular degree.

### Civil Engineering

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Civil Engineering applies the laws and principles of the basic sciences, primarily mechanics, to the design, modification, construction, and building of structures of all kinds, to resist and harness the forces of nature, and to improve the quality of life. Civil engineers are responsible for planning, designing, constructing, and operating structures, water-supply and waste-disposal systems, air- and water-pollution-control systems, flood-control systems, and transportation systems. In essence, civil engineers are concerned with the environment of modern society.

**The Civil Engineering Educational Objective is to:**

Produce civil engineering graduates who are academically prepared to be successful civil engineers serving the needs of society by working in construction, consulting, government, industry, or academia.

This educational objective describes the career and professional accomplishments that the Civil Engineering Program is preparing its graduates to achieve. This broad educational objective is further defined and measured as follows:

1. Graduates of the program will be academically prepared in the civil engineering areas of structures, geotechnical, water resources, and environmental engineering. According to the National Council of Examiners for Engineering and Surveying (NCEES), licensure is the mark of a professional that demonstrates accomplishment of the high standards of professionalism to which the engineering profession subscribes. The prerequisite for licensure is ABET-accredited education, engineering experience, and passing the Principles of Practice of Engineering Exam. This examination includes a 4 hour breadth exam in Construction, Geotechnical, Structural, Transportation, and Water

Resources and Environmental areas in addition to a 4 hour depth exam in one of these areas. Maintaining licensure requires up to 15 hours of board-approved continuing professional development annually. UNO graduates will be surveyed to determine if they have earned their professional engineering license and whether they consider themselves academically prepared in each of these civil engineering areas.

1. UNO Civil Engineering graduates are considered successful civil engineers if they attain professional advancement. Graduates of the program will be surveyed to determine professional advancement.

UNO Civil Engineering graduates will serve the needs of society by working in construction, consulting, government, industry (i.e., industrial plant, manufacturing plant, etc.) or academia. Graduates of the program will be surveyed to determine the industry in which they are employed.

The Department of Civil and Environmental Engineering at UNO offers a four-year program leading to the Bachelor of Science in Civil Engineering degree. The UNO Civil Engineering curriculum is accredited by the Accrediting Board for Engineering and Technology (ABET). The University also offers graduate programs leading to the Masters of Science in Engineering and Ph.D. in Engineering and Applied Science.

#### CURRICULUM IN CIVIL ENGINEERING

##### Department of Civil and Environmental Engineering

Course Requirements	Cr. Hrs.
Civil Engineering 2301, 2310, 2311, 2350, 2351	14
Civil Engineering 3300, 3318, 3323, 3340, 3341, 3356, 3390	21
Civil Engineering 4318, 4319, 4321, 4323, 4340, 4358, 4359, 4386, 4390, 4399	27
Civil Engineering electives <sup>1</sup>	6
<b>Total</b>	<b>68</b>

##### College of Engineering Course Requirements

Course Requirements	Cr. Hrs.
Mechanical Engineering 2750, 3770	6
<b>Total</b>	<b>6</b>

##### Non-College of Engineering Course Requirements

Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159) and 2152	9
Philosophy 2244	1
Mathematics 2111, 2112, 2221	13
Physics 1061, 1062, 1063, 1065	8
Biology Elective <sup>2</sup>	3
Social Science Electives <sup>2</sup>	6
Chemistry 1014 or equivalent	4
EES 1000	3
Literature Elective <sup>2</sup>	3
Arts Elective	3
Humanities	2
<b>Total</b>	<b>56</b>
<b>Grand Total</b>	<b>129</b>

<sup>1</sup>Electives must be selected from 4400-level courses and must include a minimum of six design credits.

<sup>2</sup>To graduate with a degree in engineering, a student must satisfy the general degree requirements of the University.

<sup>3</sup>Students who are not strong in math should take the three-semester mathematics sequence, Mathematics 2107 (3cr.), Mathematics 2108 (3cr.), and Mathematics 2109 (4cr.), in place of the two-semester sequence, Mathematics 2111 (5cr.) and Mathematics 2112 (5cr.)

## Electrical Engineering

The Department of Electrical Engineering offers the Bachelor of Science in Electrical Engineering with concentrations in computer engineering and electrical engineering.

The Department of Electrical Engineering has the goal of producing well-educated electrical and computer engineers who will be successfully employed in industry at the regional and national levels or who will continue on with graduate studies. The curriculum is designed for maximum breadth of coverage of electrical and computer engineering topics while allowing considerable depth in certain areas chosen by each student. The majority of the department's graduates are employed in the electronics, communications, computer, power, oil and petrochemical, and consulting industries. Other areas of electrical and computer engineering are available in the curriculum via electives.

Students may select a concentration in either electrical engineering or computer engineering. The traditional areas of electronics, power, communications, and controls are emphasized in the Electrical Engineering Concentration, while the Computer Engineering Concentration emphasizes the areas of digital electronics, computer architecture, operating systems, and software development. Electives are available which allow students in either concentration to obtain breadth and depth in other areas.

### Educational Objectives of the Electrical Engineering Program

The following are the educational objectives of the electrical engineering program. These objectives were developed by the faculty in consultation with the Electrical Engineering Industry Advisory Board and were approved by electrical engineering students.

The objective of the Electrical Engineering program of the University of New Orleans is to produce graduates who are successful practitioners of electrical and computer engineering and appreciate the value of furthering their education.

Driven by the University's urban mission and the needs of (and our ties with) industry of the Gulf Coast region, the Electrical Engineering program meets the demands of the following industries:

- Energy and petrochemical
- Data and telecommunication
- Computer Engineering
- Information and systems technologies
- Consulting
- Industrial power and controls
- Electronics design and manufacturing
- Shipbuilding

The Electrical Engineering program also meets the demands of national industries and serves as a foundation for graduate education.

### Minimum Grade of C:

A grade of C or better is required in all Engineering, Computer Science, Physics, and Mathematics courses counted toward the degree. In addition, a grade of C or better is required in ECON 2000 (Engineering Economics), PHIL 2244 (Engineering Ethics), and ENGL 2152 (Technical Writing). A student may not register in any engineering course if s/he has not passed all of its prerequisites with a C or better.

#### CURRICULUM IN ELECTRICAL ENGINEERING

##### Electrical Engineering Concentration

##### Department of Electrical Engineering

Course Requirements	Cr. Hrs.
Electrical Engineering 2510, 2550, 2551, 2582, 2586	11
Electrical Engineering 3512, 3517, 3530, 3540, 3543	12
Electrical Engineering 3511 or 3574, 3521 or 3535, 3533	7
Electrical Engineering 3091, 3092, 3560, 3572, 3582,	13
Electrical Engineering 3522 or 3587 <sup>1</sup>	3
Electrical Engineering electives	9
<b>Total</b>	<b>54</b>

##### College of Engineering Course Requirements

Course Requirements	Cr. Hrs.
Engineering 3090	1
<b>Total</b>	<b>1</b>

Non-College of Engineering Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159) and 2152	9
Arts Elective <sup>1</sup>	3
Mathematics 2111, 2112 <sup>2</sup> , 2115, 2221, 2511 <sup>2</sup>	19
Physics 1061, 1062, 1063, 1065, 2064	11
Computer Science 1205, 2025	6
Biology Elective <sup>1</sup>	3
Chemistry 1014	4
Philosophy 2244	1
Literature <sup>1</sup>	3
Humanities Elective <sup>1</sup>	2
Economics 2000	3
Social Sciences Elective <sup>1</sup>	3
Total	<u>67</u>
Grand Total	129

<sup>1</sup>Elective (3 hrs) may be an approved CSCI elective course.

<sup>2</sup>To graduate with a degree in Engineering, the student must satisfy the General Degree Requirements of the University.

<sup>3</sup>Students who are exceptionally strong in math may take the two-semester sequence Mathematics 2111 (5 cr.) and 2112 (5cr) in place of the three-semester mathematics sequence Mathematics 2107 (3 cr.), 2108 (3 cr.), and 2109 (4 cr.).

### CURRICULUM IN ELECTRICAL ENGINEERING

#### Computer Engineering Concentration

Department of Electrical Engineering Course Requirements	Cr. Hrs.
Electrical Engineering 2510, 2550, 2551, 2582, 2586	11
Electrical Engineering 3091, 3092, 3512, 3514, 3517, 3530, 3540, 3543, 3572, 3582, 3583, 3587	32
Electrical Engineering Electives <sup>1</sup>	<u>12</u>
Total	51

College of Engineering Course Requirements	Cr. Hrs.
Engineering 3090	<u>1</u>
Total	1

Non-College of Engineering Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159) and 2152	9
Arts Elective <sup>2</sup>	3
Mathematics 2107, 2108, 2109 <sup>3</sup> , 2115, 2221, 2511, 3721	22
Physics 1061, 1062, 1063, 1065, 2064	11
Computer Science 1205, 2025	6
Biology Elective <sup>2</sup>	3
Chemistry 1014	4
Philosophy 2244	1
Literature Electives <sup>2</sup>	3
Humanities Elective <sup>2</sup>	2
Economics 2000	3
Social Sciences Elective <sup>3</sup>	3
Total	<u>70</u>
Grand Total	129

<sup>1</sup>Elective (3 hrs) may be an approved CSCI elective course.

<sup>2</sup>To graduate with a degree in Engineering, the student must satisfy the General Degree Requirements of the University.

<sup>3</sup>Students who are exceptionally strong in math may take the two-semester sequence Mathematics 2111 (5 cr.) and 2112 (5cr) in place of the three-semester mathematics sequence Mathematics 2107 (3 cr.), 2108 (3 cr.), and 2109 (4 cr.).

### Mechanical Engineering

Mechanical engineers apply the principles and laws of the basic sciences to the design, modification, operation, construction, and

manufacture of machines and systems. Mechanical engineers are engaged in research, analysis, design, construction, development, testing, and sales of many kinds of mechanical devices. Mechanical engineering deals specifically with mechanisms, gears, cams, bearings, power machinery such as reciprocating and rotary engines, steam and jet turbines, compressors and pumps, various means of transportation such as aircraft, magnetic suspension trains, surface effect vehicles, and spacecraft, instrumentation, machine computation, and control/guidance systems.

The department strives to serve the needs of regional industries, especially the petrochemical/process, aerospace, and manufacturing industries. A major goal of the department is to provide education for these groups. Various design courses are taught to accommodate this market. Numerous courses are taught in the evening hours to make it convenient for students who work in these industries to attend classes.

The Department of Mechanical Engineering offers the Bachelor of Science in Mechanical Engineering. The University also offers graduate programs leading to the Masters of Science in Engineering, with a concentration in Mechanical Engineering, as well as a Ph.D. in Engineering and Applied Science.

#### Educational Objectives of the Mechanical Engineering Program

Consistent with the mission of the University and based on the needs of our constituents, the Department of Mechanical Engineering has adopted the following program educational objectives.

Graduates of the University of New Orleans Mechanical Engineering Program will:

1. Advance professionally, either through employment or progress towards an advanced degree, by applying their technical knowledge and abilities.
2. Attain positions of increasing responsibility through employing effective workplace skills and the professional practice of engineering.

### CURRICULUM IN MECHANICAL ENGINEERING

Department of Mechanical Engineering Course Requirements	Cr. Hrs.
Mechanical Engineering 1781, 2711, 2740, 2750, 2785	13
Mechanical Engineering 3020 <sup>3</sup> , 3711, 3716, 3720	8
Mechanical Engineering 3733, 3734, 3735	9
Mechanical Engineering 3770, 3771, 3773, 3755, 3776	15
Mechanical Engineering Design electives	<u>9</u>
Total	54

College of Engineering Course Requirements	Cr. Hrs.
Engineering 3090	1
Civil Engineering 2311, 2350, 2351	7
Electrical Engineering 2500, 3501, 3518	<u>7</u>
Total	15

Non-College of Engineering Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159) and 2152	9
Literature Electives <sup>1</sup>	3
Arts Elective <sup>1</sup>	3
Social Science Elective <sup>1</sup>	3
Humanities Elective <sup>1</sup>	2
Philosophy 2244	1
Economics 2000	3
Biology Elective <sup>1</sup>	3
Chemistry 1014 <sup>4</sup>	4
Computer Science 1201 or 1205	3
Mathematics <sup>4</sup> 2111 <sup>2</sup> , 2112, 2115, 2221, 2314	19
Physics <sup>4</sup> 1061, 1062, 1063, 1065	8
Total	<u>61</u>
Grand Total	130

**CURRICULUM IN NAVAL ARCHITECTURE AND MARINE  
ENGINEERING**

<b>School of Naval Architecture and Marine Engineering Course Requirements</b>		<b>Cr. Hrs.</b>
Naval Architecture and Marine Engineering 2151 <sup>6</sup> , 2160 <sup>6</sup>		6
Naval Architecture and Marine Engineering 3120 <sup>6</sup> , 3130 <sup>6</sup> , 3150 <sup>6</sup> , 3160 <sup>6</sup> , 3171 <sup>6</sup>		20
Naval Architecture and Marine Engineering 4170 <sup>6</sup> , 4175		6
Naval Architecture and Marine Engineering electives <sup>1</sup>		12
<b>Total</b>		<b>44</b>
<b>College of Engineering Course Requirements</b>		<b>Cr. Hrs.</b>
Engineering 3090		1
Mechanical Engineering 1781		3
Mechanical Engineering 2750		3
Mechanical Engineering 3020 <sup>2</sup> , 3716, 3720, 3770		10
Civil Engineering 2311, 2350, 2351		7
Electrical Engineering 2500, 3501, 3518		7
<b>Total</b>		<b>31</b>
<b>Non-College of Engineering Degree Requirements</b>		<b>Cr. Hrs.</b>
English 1157, 1158 (or 1159) and 2152		9
Arts Elective <sup>1</sup>		3
Mathematics 2107, 2108, 2109 <sup>3</sup> , 2115, 2221, 2314		19
Physics 1061, 1062, 1063, 1065		8
Chemistry 1014		4
Computer Science 1201 or 1203 or 1205 <sup>4</sup>		3
Philosophy 2244		1
Economics 2000 <sup>5</sup>		3
Social Science Elective <sup>1</sup>		3
Humanities Elective		2
Biology Elective <sup>1</sup>		3
Literature Electives <sup>1</sup>		3
<b>Total</b>		<b>61</b>
<b>Grand Total</b>		<b>136</b>

<sup>1</sup> To graduate with a degree in engineering, the student must satisfy the General Degree Requirements of the University.

<sup>2</sup> Instead of ENME 3020 students may take MATH 3221.

<sup>3</sup> Students who are strong in mathematics may take the two-semester math sequence, MATH 2111 (5 cr.) and MATH 2112 (5 cr.) in place of the three-semester sequence, MATH 2107 (3 cr.), MATH 2108 (3 cr.), and MATH 2109 (4 cr.)

<sup>4</sup> Students may take the combination of CSCI 1581 and 1583 (4 cr.) in place of CSCI 1201 or CSCI 1203 or CSCI 1205.

<sup>5</sup> Economics 2000 satisfies three hours of the UNO requirement of six hours of Social Science at or above the 2000 level (referred to in footnote 1).

<sup>6</sup> Students have to achieve a grade of "C" or better in all prerequisites to 2000-level and 3000-level NAME courses as NAME 4170.

<sup>1</sup> To graduate with a degree in Engineering the student must satisfy the general degree requirements of the University.

<sup>2</sup> Students can take the three-semester mathematics sequence, Mathematics 2107 (3cr.), Mathematics 2108 (3cr.), and Mathematics 2109 (4cr.) in place of the two-semester sequence Mathematics 2111 (5cr.) and Mathematics 2112 (5cr.).

<sup>3</sup> Mathematics 3221 may be taken in place of Mechanical Engineering 3020.

<sup>4</sup> A grade of C or better is required for all Mathematics, Physics, and Chemistry courses

## Naval Architecture and Marine Engineering

Naval architects and marine engineers work on the design of ships, boats, and offshore structures. Included are the marine systems for shipping raw materials and finished products, the frontiers of deep-sea exploration, and mineral recovery and the construction and servicing of marine systems.

UNO offers the Bachelor of Science in Naval Architecture and Marine Engineering (NAME), the Master of Science in Engineering, and the Ph.D. in Engineering and Applied Science. The UNO Naval Architecture and Marine Engineering curriculum is accredited by the Accreditation Board for Engineering and Technology (ABET). These specialized degrees in Naval Architecture and Marine Engineering prepare majors for careers in the US and international shipbuilding and offshore industries by applying the principles and laws of the basic sciences and mechanics to the design, construction and operation of commercial, naval, and recreational vessels, platforms, and other floating structures.

### Mission Statement

The mission of the School of Naval Architecture and Marine Engineering is to supply well-educated graduates for perpetuation and advancement of the maritime industry, to maintain and advance the practice of naval architecture and marine engineering through education and research processes, to elevate the UNO School of NAME and the University of New Orleans in prominence as a valued contributor to the marine field, and to continually strengthen direct ties with the local and national marine industry constituency.

### Program Objectives

The two principal constituencies of the School of NAME to which the above mission is directed are

- the *maritime* industry, and
- the *students*

Although the industry constituency encompasses the marine industry nationally, its primary target is the shipbuilding and offshore industry in the State of Louisiana and the extended Gulf Coast region. The industry constituency is considered to include an alumni sub-constituency, as essentially the entire active alumni group is composed of industry professionals.

Graduates of the School of NAME BS program are to be recognized as well educated engineers consistently demonstrating exemplary professional capabilities. The graduates are to have demonstrated the ability to direct, supervise, and make important decisions regarding the design and engineering of problems based on engineering fundamentals and modern technological tools. Graduates of the program are to have demonstrated the maturity and knowledge needed for participating in the leadership of the advancement of the NAME field.

# College of Liberal Arts

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## Susan E. Krantz, Dean

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By providing a wide range of courses and curricula, the College of Liberal Arts enables students to develop a broad intellectual and cultural perspective. Such a perspective both enriches their lives and prepares them for leadership in whatever profession or vocation they choose. Even more important, it gives them an accurate view of themselves as individuals in the context of their civilization. The College of Liberal Arts includes 12 departments, the School of Urban Planning and Regional Studies, and four interdisciplinary programs.

## Major Programs

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The College of Liberal Arts offers major programs leading to the Bachelor of Arts degree in:

Anthropology	International Studies
Film, Theatre and Communication Arts	Music
English	Philosophy
Fine Arts	Political Science
French	Sociology
Geography	Spanish
History	

The College of Liberal Arts offers the Bachelor of Science degree in Urban Studies and Planning.

## Minor and Certificate Programs

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Minor programs are available in many of the above areas. Interdisciplinary minors in Africana Studies, Asian Studies, European Studies, Latin American and Caribbean Studies, Environmental Studies, and Women's and Gender Studies are also available. Certificate programs are available in American Humanities and Historic Preservation.

## Requirements for Bachelor of Arts Degree

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The following course requirements must be completed by all students working toward a Bachelor of Arts degree in the College of Liberal Arts. Some curricula may demand more than the minimums designated below or may call for specific courses where the general requirements allow a choice. Each student should check his or her major curriculum on the following pages to determine the additional requirements and restrictions which apply in that particular major.

## General Course Requirements

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1. **Math**—Six hours. Any combination of 1031, 1032, 1115, 1116, 1125, 1126, or higher can be used to meet this requirement except where otherwise specified in the curriculum. Limitations: No credits

allowed toward graduation for Mathematics 1021, 1023 or for more than nine hours of math below the 2000 level.

2. **Science**—Nine hours. Six hours of one science and three hours of a different science. One of the sciences must be biology, and the other must be earth and environmental sciences, chemistry, or physics. NOTE: Credit toward graduation is not allowed for both Biology 1083 and 1053 or for Biology 1073 and 1063.
3. **English Composition**—Six to nine hours. Completion of 1158 or 1159. Unless a student is placed (by placement test and/or transfer credit) into English 1158, English 1156 and/or 1157 as well as English 1158 are required.
4. **Literature**—Six hours of literature from any department. Limitations: Writing and linguistics courses do not fulfill this requirement. NOTE: Some Liberal Arts majors require specific literature courses. See your individual curriculum.
5. **Arts**—Three hours to be taken from the departments of Fine Arts, Music, or theatre/dance/film-related courses in Film, Theater, and Communication Arts.
6. **Humanities**—Nine hours. To include at least one subject different from that used for the arts requirement (above), and at least six hours at or above the 2000 level. (If the Arts requirement is fulfilled with a 2000 or higher-level course, reduce these six hours to three.) To be taken from the departments of film, theatre and communication arts; English; fine arts; foreign languages; music; and/or philosophy. NOTE: Any literature course in English or foreign languages used to fulfill the College requirement of six hours of literature shall not count toward the Humanities requirement.
7. **Foreign Languages**—Three to 12 hours. Completion of course 2001 in one foreign language or completion of course 1002 in two foreign languages offered through the Department of Foreign Languages. Unless a student is placed (by placement test and/or transfer credit) above the first course, either three semesters of one language in course sequence or two semesters each of two different languages are required.  
NOTES: 1) Students whose native language is Spanish should confer with the foreign language department about Spanish 2003 and 2004, which are especially designed to meet their needs and which also meet this requirement. Languages other than Spanish or French, offered through the Department of Foreign Languages, that extend through the 2001 or 2011 level may be used to meet this requirement. 2) Some 2001- and 2002-level courses in languages other than Spanish and French may not be available each semester.

8. **Social Sciences**—Twelve hours to include two different subject areas with six hours at or above the 2000 level from the following subjects: anthropology, economics, geography, political science, psychology, sociology, urban studies and women's and gender studies. NOTE: In some curricula, most or all of this requirement is met within other requirements.
9. **Computer Literacy**—Each student should develop a reasonable competence in those computing techniques most relevant to his/her major program. There should be experience with several different software systems and their applications. Each student should also develop a basic understanding of the nature and function of computers as symbol manipulators and of the general techniques of problem analysis needed for programming solutions to problems. This requirement may be fulfilled by one of the following:
- Successful completion of Computer Science 1000 or another computer science course of three credits or more.
  - Advanced standing credit for Computer Science 1000, earned by successful completion of an examination administered by the Department of Computer Science.
  - Successful completion of a course or series of courses within the student's major department which has been approved as fulfilling the computer literacy requirement.
10. **Oral Competency**—Each student should demonstrate competence in the techniques of oral communication relevant to his/her major program. Students should be able to discuss with clarity ideas and factual material in formal small group class settings and in conferences with their professors. This requirement may be fulfilled by one of the following:
- Successful completion of an approved course in the student's major department or college that requires a demonstration of oral competence as a condition of receiving a passing grade in the course.
  - Demonstration of oral competence in an approved course in the student's major department or college that does not require oral competence as a condition of receiving a passing grade. If a student demonstrates oral competency in such a course, an entry shall be made on his/her transcript that oral competency has been demonstrated regardless of the final grade in the course. If a student fails to demonstrate oral competency in the approved course(s) offered by a student's major department or college, the student may take a course outside his/her major department as a means of meeting the general degree requirement for oral competency, upon approval of the student's major department.
11. **Electives**—Number of hours varies by major. See curriculum outline in General Catalog. Limitations: Courses must be from the list of approved Liberal Arts electives; however, nine hours of credit in subjects not on the approved list are allowed. (Within those nine hours a maximum of three hours of human performance and/or health-safety are permitted.)
- NOTES: At least six hours must be in courses numbered 3000 or above in a subject or subjects other than the major and from the approved list of electives. Liberal Arts students are encouraged to plan their choice of electives with the assistance of a departmental faculty advisor in the context of their overall educational goals.

## Approved Electives

Most of the curricula provide considerable flexibility for devising a program adapted to the particular interests and educational goals of the individual student. To assure the construction of a cohesive program, all students are expected to consult with a major advisor regarding electives as well as the courses specified for the

major. The flexibility of the elective system is not intended to permit formlessness or aimless sampling. Many combinations are possible, but logical planning should be the basis of all programs. Within the limitations noted above electives will be accepted on the following basis:

Students in the College of Liberal Arts may elect, for degree credit, any course for which they have the prerequisites from the following subjects:

Accounting  
 Anthropology  
 Arts and Sciences  
 Bacteriology  
 Biology  
 Botany  
 Business Administration  
 Chemistry  
 Computer Science  
 Earth and Environmental Sciences  
 Education\*  
 Economics  
 English  
 Film, Theatre and Communication Arts  
 Finance  
 Fine Arts  
 Foreign Languages  
 Geography  
 History  
 Hotel, Restaurant and Tourism Administration  
 Humanities  
 Journalism  
 Marketing  
 Mathematics  
 Music  
 Philosophy  
 Physics  
 Political Science  
 Psychology  
 Social Sciences  
 Sociology  
 Urban Studies  
 Management  
 Women's and Gender Studies  
 Zoology

\*Only courses in Curriculum and Instruction, Educational Foundations and Research, Library Science, and Special Education.

## Other Subjects

Courses in subjects not listed above normally will be accepted to the extent of nine credit hours total. This limit may be waived, if the student presents to the dean a logical plan clearly showing the relevance of such courses to the major program and to the educational goals of the student. Such permission must be secured before the nine-hour limit is exceeded. A maximum of three hours of any Health-Safety and/or Human Performance course, regardless of level, may be included in the nine credit hours total.

## Pass/Fail

Students in the College of Liberal Arts who have achieved junior standing and who have an average of 2.75 or better on all of their university work and on all work taken at UNO may, if they choose, take one course each semester on a pass/fail basis. Credits thus earned will be counted toward the total number of hours required for the degree, but they will be disregarded in determining the student's grade point average. A maximum of 12 credits toward graduation may be earned in this way, and all courses so taken must fall into the elective

category.

Students may not take courses on the pass/fail basis (a) in their major subject, (b) in their minor field, (c) to satisfy departmental degree requirements, or (d) to fulfill those college degree requirements that are listed as Course Requirements. A student who wishes to schedule a course on the pass/fail basis must file an application in the office of the Dean of the College of Liberal Arts within the first week of classes in the semester in which the course is to be taken. If the student meets the requirements outlined above, an approved copy of the application form will be forwarded to the instructor of the course with a request that the grade of P or F be submitted at the completion of the course. (Work that would ordinarily be of A, B, C, or D quality will be given the grade of P.)

## **Business Administration Component**

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For students who wish to obtain a foundation in business, the following courses are recommended: Accounting 2100 and 2130; Quantitative Methods—Business and Economics 2785; Finance 3300; Management 3401; and Marketing 3501. Students who plan to take a substantial number of business courses should seek the advice of the appropriate persons in the College of Business Administration.

## **Requirements for Bachelor of Science Degree**

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The following course requirements must be completed by all students working toward a Bachelor of Science degree in the College of Liberal Arts. Each student should check the major curriculum in urban studies and planning (currently the only B.S. degree offered in the College of Liberal Arts) to determine the additional requirements and restrictions which apply in that major.

### **General Course Requirements**

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1. **Math** – Six hours.
2. **Science** – Nine hours. Six hours of one science and three hours of a different science. One of the sciences must be biology and the other must be earth and environmental sciences, chemistry, or physics. NOTE: Credit toward graduation is not allowed for both Biology 1083 and 1053 or for Biology 1073 and 1063.
3. **English Composition** – Six to nine hours. Completion of 1158 or 1159. Unless a student is placed (by placement test and/or transfer credit) into English 1158, 1156 and/or 1157 as well as English 1158 are required.
4. **Literature** – Six hours of literature from any department. Limitations: Writing and linguistics courses do not fulfill this requirement.
5. **Arts**<sup>1</sup> – Three hours. To be taken from the departments of film, theatre, and communication arts; fine arts; or music.
6. **Humanities**<sup>1</sup> – Three hours. To be taken from any of the humanities disciplines.
7. **Social Sciences**<sup>1,2</sup> – Six hours to be taken from the social sciences.
8. **Computer Literacy** – Each student should develop a reasonable competence in those computing techniques most relevant to his/her program. There should be experience with several different software systems and their applications. Each student should also develop a basic understanding of the nature and function of computers as symbol manipulators and of the general techniques of problem analysis needed for programming solutions to problems. This requirement may be fulfilled by one of the following:
  - a. Successful completion of Computer Science 1000 or another computer science course of three credits or more.
  - b. Advanced standing credit for Computer Science 1000, earned by successful completion of an examination administered by the Department of Computer Science.
  - c. Successful completion of Business Administration 2780.
9. **Oral Competency** – Each student should demonstrate competence

in the techniques of oral communication relevant to his/her major program. Students should be able to discuss with clarity ideas and factual material in formal small group class settings and in conferences with their professors. This requirement is satisfied by successful completion of Film, Theatre, and Communication Arts 2650.

<sup>1</sup>Six of the twelve hours in humanities, arts, and/or social sciences must be at the 2000 level or above.

<sup>2</sup>See departmental list of acceptable courses.

## **Transfer Credit**

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Transfer credits acceptable for admission purposes will be valid for degree credit in the College only to the extent to which they represent courses acceptable in the curricula of the College. The College may decline to accept transfer credits in any course in which a grade lower than a C has been received. Validation may be required for credits earned more than 10 years before admission to the College.

Transfer students should note that the last 25 percent of coursework must be taken in residence while enrolled in the college from which the degree is to be earned. In the College of Liberal Arts, transfer students must take at least 12 hours in the major subject (with a minimum of nine hours in courses numbered 3000 or above) at UNO. Candidates for a degree must earn a C average in all courses in their major subject taken while they are registered in the College.

## **Program Planning**

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All students should plan their programs in advance in order to receive maximum benefit from their college years. Besides examining their own goals, students should consult with advisors to take advantage of alternatives in general degree requirements and electives.

Students are responsible for knowing degree requirements and for enrolling in courses that fit into their degree programs. They are strongly encouraged to complete the requirements in English, foreign language, mathematics, and science at the earliest possible time in their college career.

Each student is also responsible for notifying the college office of graduation plans at the beginning of the semester preceding the student's final semester. At that point, a graduation checkout sheet is prepared which outlines the student's current scholastic position and indicates the course requirements remaining for the degree.

## **Requirements for a Minor**

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A Liberal Arts minor requires a minimum of 18 hours and a 2.0 average in the minor field. See minor in individual curricula for specific courses required.

At least nine hours of coursework must be taken at UNO, and for a minor requiring six or more hours at the 3000 level or above, at least six of those hours must be taken at UNO. Minors requiring fewer than six hours of 3000- or 4000-level courses require all these hours be taken at UNO. No pass/fail courses will apply toward a minor.

### **Minor in Africana Studies**

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The College of Liberal Arts administers the interdisciplinary Minor in Africana Studies. The purpose of this minor is to acquaint the student with current and historical knowledge of the black experience in Africa, the Americas, and other parts of the world drawing from courses in the College of Liberal Arts as well as approved courses offered by the other Colleges. The minor signifies that the student has a basic, general understanding of the significant contributions made by African people in Africa and in the African Diaspora.

The requirements of the minor are as follows:

1. Completion of the requirements of a degree in one of the colleges at UNO.
2. Completion of History 1010, either English 2071 or 2072, and either

History 3551 or 3552.

3. Completion of nine credit hours to be taken from a list of approved courses. To complete 18 credit hours, the student must choose courses from a minimum of three disciplines. At least six credit hours must consist of courses at the 3000 level or above.
4. The Coordinator may permit substitution of as many as six of these 18 hours with UNO Special Topic or Independent Study courses. Appropriate courses offered at UNO or other universities may be suggested as substitutes. The Coordinator may assign each student to a faculty advisor who will help the student design the minor program. Courses on Africana Studies in the major field that are counted as credit hours for that major may not also be counted toward this minor.

Interested students should contact the Coordinator of Area Studies Minors through the College of Liberal Arts office.

### **Minor in Asian Studies**

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The College of Liberal Arts administers the interdisciplinary Minor in Asian Studies. The purpose of this minor is to acquaint students with current and historical knowledge of the Asian region, peoples, and cultures. The minor signifies that students have a basic and general understanding of this part of the world. The requirements of this minor are as follows:

Completion of the requirements of a degree in one of the colleges at UNO.

1. Completion of four semesters (a minimum of 12 credit hours) of Chinese, Japanese, or other relevant language through 2002 or its equivalent.
2. Completion of History 2201 and 2202 (the survey of Asian civilizations).
3. Credit in courses on Asia to be approved by the Coordinator, for a total of 12 credit hours in addition to the language and history requirement. At least six credit hours must be at the 3000 level or above. In addition, six of the 12 credit hours must be chosen from at least two disciplines outside of history and language, with no more than nine credit hours from any one discipline. Courses on Asia in the major field that are counted as credit hours for that major may not also be counted toward this minor.
4. A minimum 2.0 grade-point average must be attained in all courses in the minor program.

Interested students should contact the Coordinator of Area Studies Minors through the College of Liberal Arts office.

### **Minor in Environmental Studies**

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The Minor in Environmental Studies draws its required and optional courses from seven disciplines in the College of Liberal Arts. This interdisciplinary approach introduces students to the complexity of human-environmental relationships and problems. The Department of Sociology administers the minor.

The requirements of the minor are as follows:

1. Completion of the requirements of a degree in one of the colleges at UNO.
2. Completion of two core courses: Geography 1600 and Sociology 2871.
3. Completion of 15 credit hours from an approved list\* (in addition to the core courses) including courses from at least three Liberal Arts disciplines but no more than six credit hours from any one discipline.
4. Students must maintain at least a 2.0 grade-point average in all courses used to fulfill this minor.

\* Approved courses for the minor: Anthropology 2051, 2052, 4721, 4761; Fine Arts 4263; Geography 1600, 2158, 4158, 4320, 4220, 4550; History 2080, 4543, 4582; Philosophy 3430, 4205; Political Science 4170; Sociology 2871, 4871, 4881, 4903.

Students wishing to take a course not on the approved list must get permission from the Director of Environmental Studies in the Sociology Department. To meet the prerequisite requirements for some of the approved courses, students may need to complete more than the minimum 21 hours required for this minor.

### **Minor in European Studies**

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The College of Liberal Arts administers the interdisciplinary minor in European Studies. The purpose of this minor is to acquaint the student with historical and current knowledge of the European region, peoples, societies, economies, and cultures. The minor signifies that students have a basic and general understanding of this part of the world. The requirements of this minor are as follows:

1. Completion of the requirements of a degree in one of the colleges at UNO.
2. Completion of courses in French, Italian, Spanish, German, Russian, or other relevant languages through 2002 or its equivalent.
3. Completion of six credit hours in one of two core curricula:
4. Core I: Social Sciences (Anthropology 2052; Geography 2422; History 1001, 1002, 1019, 1029; Political Science 2600).
5. Core II: Arts and Letters (English 2371, 2372; Fine Arts 2201, 2202; Music 2201, 2202; Philosophy 2311, 2312).
6. Credit courses in European Studies to be approved by the Coordinator, for a total of 12 credit hours with a minimum 2.0 grade-point average, to include at least six credit hours at the 3000 level or above. These 12 credit hours must be chosen from a minimum of three disciplines and must cover different time periods. Courses on Europe in the major field that are counted as credits for that major may not also be counted toward this minor.
7. A minimum 2.0 grade-point average must be attained in all courses in the minor program.

Interested students should contact the Coordinator of Area Studies Minors through the College of Liberal Arts office.

### **Minor in Latin American and Caribbean Studies**

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The College of Liberal Arts administers the interdisciplinary Minor in Latin American and Caribbean Studies. The purpose of this minor is to acquaint the student with current and historical knowledge of the region known as Latin America and the Caribbean. The minor signifies that the student has a basic and general understanding of the peoples and cultures of this part of the New World. The requirements of the minor are as follows:

1. Completion of the requirements of a degree in one of the colleges at UNO.
2. Completion of 12 semester hours of Spanish language course work.
3. Credit in courses on Latin America and the Caribbean, to be approved by the Coordinator of Area Studies Minors, for a total of 18 credit hours with a minimum 2.0 grade-point average and at least six credit hours at the 3000 level or above. These 18 credit hours must be chosen from a minimum of three disciplines, with no more than six credit hours from any one discipline. Courses on Latin America and the Caribbean in the major field that are counted as credit hours for that major may not also be counted toward this minor.

Interested students should contact the Coordinator of Area Studies Minors through the College of Liberal Arts office.

### **Minor in Women's and Gender Studies**

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The College of Liberal Arts administers the interdisciplinary Minor in Women's and Gender Studies. The purpose of this minor is to acquaint the student with current and historical knowledge of the fields of Women's and Gender Studies. The minor signifies that the student has a basic and general understanding of existing scholarship on women and gender. The requirements of the minor are as follows:

1. Completion of the requirements of a degree in one of the colleges at UNO.
2. Completion of WGS 2010, Introduction to Women's, Gender and Sexuality Studies.
3. Credit in courses on Women's and Gender Studies, to be approved by the Director of Women's and Gender Studies, for a total of 18 credit hours with a 2.0 grade point average, to include at least six credit hours at the 3000 level or above.
4. To complete the 18 credit hours, the student must choose from a minimum of three disciplines, with no more than six credit hours from any one discipline.

Interested students can contact the Director of the Women's and Gender Studies Program through the College of Liberal Arts office.

### Certificate Program in American Humanics

The UNO American Humanics Program (AH) is a certification program in non-profit leadership designed to prepare students for entry-level management positions. The program is a cooperative effort between American Humanics, Incorporated of Kansas City, Missouri; LSU-Shreveport; and UNO. AH is the first national organization devoted to the preparation of students for careers in youth and human service organizations. It is designed to meet the demand for qualified, mission-driven professional staff for employment in the expanding youth and human services non-profit sector. Interested students should contact the Department of Sociology for further information.

### School of Urban Planning and Regional Studies

UNO's School of Urban Planning and Regional Studies (SUPRS) faculty and students engage with and directly participate in research and service central to the recovery and restoration of the greater New Orleans area. SUPRS offers undergraduate and graduate degrees in Anthropology, Geography and Urban Studies, as well as the Master of Urban and Regional Planning (MURP), the only accredited urban planning program within the states of Louisiana, Mississippi, and Arkansas. SUPRS guides students to meet the challenge of simultaneously preserving cultural traditions and building workable twenty-first century communities. The academic programs are supported by the Center for Urban And Public Affairs and the UNO Transportation Center, both of which offer additional research opportunities to students.

#### CURRICULUM IN ANTHROPOLOGY

##### Department of Anthropology

Course Requirements	Cr. Hrs.
Anthropology 2051, 2052, plus one of 3101, 3201 or 3301	9
Anthropology 4721, 4761, 4772, or 4775	3
Anthropology 4801	3
Anthropology 4995 <sup>1</sup>	1
Anthropology <sup>2</sup>	21
Total	37

##### College of Liberal Arts Course Requirements

	Cr. Hrs.
English 1157, 1158 (or 1159)	6
English Literature*	6
Foreign Language <sup>3</sup>	9
Geography 1001, 1002 or History 1001, 1002 <sup>4</sup>	6
Humanities (2000 level or above)	3
Arts*	3
Total	33

##### Non-College of Liberal Arts Course Requirements

	Cr. Hrs.
Mathematics*	6
Sciences*	9
Computer Science 1000 or Sociology 2707 <sup>5</sup>	3-4
Total	18-19

##### Electives

	Cr. Hrs.
Non-Anthropology at 3000 level or above*	6
Approved electives	26
Total	32
Grand Total	120-121

\*See General Course Requirements and Approved Electives in the Liberal Arts Section.

<sup>1</sup>Fulfills oral competency requirement.

<sup>2</sup>At least six hours from area studies courses in anthropology, and at least nine additional hours from topics/theory courses in anthropology at the 4000-level or higher (excluding 4990). Students planning to continue in cultural anthropology, archaeology, physical anthropology, or linguistics should choose the needed additional six hours from courses appropriate to their specialization. No more than three credit hours at the 1000 level may count toward the major.

<sup>3</sup>The nine hours in foreign language must be in the same language. Alternatively, students may opt to take 12 hours in two foreign languages (six hours in each of two languages). If the 12-hour option is chosen, reduce approved electives by three hours; the remaining 27 hours of approved electives must then include three hours of 2000+ humanities.

<sup>4</sup>Other courses may be substituted with approval of department.

<sup>5</sup>Fulfills computer science requirement. Three additional hours of statistics or computer sciences are strongly recommended for all majors.

### Minor in Anthropology

Students who wish to secure a significant background in anthropology while majoring in another area may do so by earning 18 credit hours in anthropology courses, including both Anthropology 2051 and 2052 and at least nine hours at or above the 3000 level (exclusive of Anthropology 3896 and 4991). Successful completion of these requirements with an average of at least 2.0 in the minor will result in a minor in anthropology.

### Honors in Anthropology

An honors program is available for qualified students who may be admitted by departmental action in the junior year. To secure admission a student must have an overall average of 3.25 and a 3.5 average in anthropology. The program requires successful completion of at least three hours of Arts and Sciences courses, completion of a 4000-level anthropology course on the honors level, the completion of an honors thesis, which involves earning six hours in Anthropology 3896, and the maintenance of an average of 3.6 in anthropology and 3.25 overall. The honors thesis is to be defended orally before a committee composed of the thesis director, another member of the anthropology faculty appointed by the department chair, and a representative of the honors program. Students planning to continue in graduate school are strongly advised to take the honors degree in anthropology.

#### CURRICULUM IN ENGLISH

Department of English Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)	6
English 2031, 2032, 2258 <sup>1</sup> , 2341, 2342, 3394	18
English electives	21
Total	45

##### College of Liberal Arts Course Requirements

	Cr. Hrs.
History	6
Foreign Language <sup>2</sup>	9
Arts*	3
Social Sciences (at least 3 hours outside History)*	6
Total	24

##### Non-College of Liberal Arts Course Requirements

Cr. Hrs.

Sciences*	9
Mathematics*	6
Total	15
<b>Electives</b>	
Non-English at 3000 level or above*	6
Approved electives*	30
Total	36
Grand Total	120

\*See General Course Requirements and Approved Electives in Liberal Arts Section.

<sup>1</sup>Satisfies College requirements of oral competency and, in conjunction with English 2031, 2032, 2341, and 2342, computer literacy.

<sup>2</sup>The nine hours of foreign language must be in the same language. Students may, however, opt to take 12 hours in two foreign languages (six hours each of two languages). With the 12-hour option, there are three fewer hours of approved electives.

**Core English requirements for English majors:** See above

English Electives:

1. One 4000-level American literature course (English 4030, 4031, 4032, 4033, 4034, 4045, 4091, 4092, or approved 4391).
2. One 4000-level British literature course before 1660 (English 4401, 4421, 4501, 4516, 4521, 4522, 4601, 4616, 4621, or approved 4391).
3. One 4000-level British literature course after 1660 (English 4701, 4702, 4715, 4716, 4801, 4802, 4807, 4808, 4815, or approved 4391).
4. Twelve hours of 3000/4000-level courses in English or journalism. This requirement is waived for students who complete a 12-hour concentration.

#### Optional Concentrations within the Major Program

The English Department offers five 12-hour concentrations:

1. Professional Writing,
2. Journalism,
3. Pre-Law,
4. Creative Writing,
5. New Orleans Regional Literatures.

Students interested in pursuing one of the concentrations should see the Coordinator of Undergraduate English for a list of relevant courses.

#### Honors in English

Available to qualified majors and non-majors, and open (but not limited) to students enrolled in University Honors.

#### Honors in English for English Majors

To graduate with honors in English, English majors must:

1. Fulfill the usual requirement for English majors.
2. Maintain a minimum cumulative grade point average of 3.5 in English and 3.25 overall.
3. Complete a minimum of nine semester hours in honors courses, which may include English 2199, 2299, and 2399.
4. Successfully complete a six-hour thesis. With consent of the chair of the Department of English and the director of the University Honors Program, three hours of related course work taken prior to registration in English 3399 (Honors Thesis) may be counted toward the thesis.
5. Perform satisfactorily in an oral examination on a senior thesis.

#### Honors in English for Non-Majors

To graduate With Honors in English, students not majoring in English must:

1. Maintain a minimum cumulative grade point average of 3.5 in English courses and 3.25 overall.

2. Complete a minimum of 12 semester hours in English courses approved by the department. At least six of the 12 hours must be in courses numbered 3000 or above.
3. Complete a minimum of nine semester hours in honors courses, which may include English 2199, 2299, and 2399.
4. Successfully complete a six-hour thesis. With consent of the chair of the Department of English and the director of the University Honors Program, three hours of related coursework taken prior to registration in English 3399 (Honors Thesis) may be counted toward the thesis.
5. Perform satisfactorily in an oral examination on a senior thesis.

#### Minor in English

Eighteen hours in English tailored to the needs of the student as approved by the Coordinator of Undergraduate English:

1. Six hours of English department literature courses numbered 2000 or above.
2. Twelve additional hours of English or Journalism courses numbered 2000 or above, nine of which must be at the 3000- or 4000-level.
3. A minimum grade of C in each course taken for the minor.

#### Minor in Print Journalism

The College of Liberal Arts administers the Minor in Print Journalism in conjunction with Southern University in New Orleans. To earn this minor, students must complete 18 credit hours. The 12 hours of required courses are: SUNO's Journalism 241 or UNO's Film, Theatre and Communication Arts 1600; SUNO's Journalism 242 or UNO's Journalism 2700; SUNO's Journalism 320; and SUNO's Journalism 420 or UNO's Journalism 4700 or other 4000-level Journalism courses. Six hours of electives must be selected from the following SUNO courses: Journalism 360, Journalism 425, Journalism 430, and Journalism 450.

#### CURRICULUM IN FILM, THEATRE AND COMMUNICATION ARTS

Students majoring in Film, Theatre, and Communication Arts must elect one of three options:

##### Film Arts Option

Department of Film, Theatre, and Communication Arts Course Requirements	Cr. Hrs.
Film, Theatre, and Communication Arts 1110	3
Film, Theatre, and Communication Arts 1620	3
Film, Theatre, and Communication Arts 2510 and 2565 <sup>1</sup>	6
Film, Theatre, and Communication Arts 4540 or 4541, and 4545 <sup>2</sup>	6
Film, Theatre, and Communication Arts Application Electives	6
(Six hours from the following: Film, Theatre, and Communication Arts 2250, 2260, 2270, 2335 <sup>2</sup> , 2800, 3800, 4096, 4251, 4460, 4500 <sup>2</sup> , 4510, 4520, 4530, 4550, 4551, 4555, 4565, 4566, 4567, 4568, 4570 <sup>2</sup> , 4580 <sup>2</sup> , 4591, 4900)	
Film, Theatre, and Communication Arts Electives	23
Total	44

##### College of Liberal Arts Course Requirements Cr. Hr.

English 1157, 1158 (or 1159)	6
Literature*	6
Foreign Language**	9-12
Social Science electives*	12
Total	33-36

##### Non-College of Liberal Arts Course Requirements

Cr. Hr.	
Mathematics*	6
Science*	9
Total	15

<b>Electives</b>	<b>Cr. Hr.</b>
Non-Film, Theatre, and Communication Arts (3000 level or above)	6
Approved electives*	<u>22-19</u>
Total	<u>28-25</u>
Grand Total	120

\* See General Course requirements and Approved Electives in Liberal Arts section.

\*\*The nine hours of foreign language must be in the same language. Students may, however, opt to take twelve hours in two foreign languages (six hours each of two languages). With the twelve-hour option, there are three fewer hours of approved electives.

<sup>1</sup>Course satisfies College requirement of computer literacy.

<sup>2</sup>Course satisfies College requirement of oral competency.

Students should expect that the Department of Film, Theatre, and Communication Arts may retain some or all work written or created as a classroom assignment.

#### Theatre Arts Option

<b>Department of Film, Theatre, and Communication Arts Course Requirements</b>	<b>Cr. Hr.</b>
Film, Theatre, and Communication Arts 1005, 1100, 1300 <sup>1</sup> , 1800(3)	12
Film, Theatre, and Communication Arts 2100, and 2320 <sup>1</sup> or 2380 <sup>1</sup>	6
Film, Theatre, and Communication Arts 4400, and 4450 or 4455	6
Film, Theatre, and Communication Arts Electives	<u>20</u>
Total	44

<b>College of Liberal Arts Course Requirements</b>	<b>Cr. Hr.</b>
English 1157, 1158 (or 1159)	6
Literature*	6
Foreign Language**	9-12
Social Science electives*	<u>12</u>
Total	33-36

<b>Non-College of Liberal Arts Course Requirements</b>	<b>Cr. Hr.</b>
Mathematics*	6
Science*	9
Computer Science 1000	<u>3</u>
Total	18

<b>Electives</b>	<b>Cr. Hr.</b>
Non-Film, Theatre, and Communication Arts (3000 level or above)	6
Approved electives*	<u>19-16</u>
Total	<u>25-22</u>
Grand Total	120

\* See General Course requirements and Approved Electives in Liberal Arts section.

\*\* The nine hours of foreign language must be in the same language. Students may, however, opt to take twelve hours in two foreign languages (six hours each of two languages). With the twelve-hour option, there are three fewer hours of approved electives.

<sup>1</sup>Course satisfies College requirement of oral competency.

Students should expect that the Department of Film, Theatre, and Communication Arts may retain some or all work written or created as a classroom assignment.

#### General Communication Arts Option

<b>Department of Film, Theatre, and Communication Arts Course Requirements</b>	<b>Cr. Hr.</b>
Film, Theatre, and Communication Arts 1005, 1620, 1800 7	
Film, Theatre, and Communication Arts 2240 or 2320 <sup>1</sup> and 2800 or 4551	4

Film, Theatre, and Communication Arts 4200 or 4251	3
Film, Theatre, and Communication Arts Arts Advanced Electives (Six hours from the following: Film, Theatre and Communication Arts 4400, 4450, 4455, 4540, 4541, 4545 <sup>1</sup> , 4591)	6
Film, Theatre, and Communication Arts Application Electives (Six hours from the following: Film, Theatre, and Communication Arts 2200, 2250, 2260, 2270)	6
Film, Theatre, and Communication Arts Electives	<u>18</u>
Total	44

<b>College of Liberal Arts Course Requirements</b>	<b>Cr. Hr.</b>
English 1157, 1158 (or 1159)	6
Literature*	6
Foreign Language**	9-12
Social Science electives*	<u>12</u>
Total	33-36

<b>Non-College of Liberal Arts Course Requirements</b>	<b>Cr. Hr.</b>
Mathematics*	6
Science*	9
Computer Science 1000	<u>3</u>
Total	18

<b>Electives</b>	<b>Cr. Hr.</b>
Non-Film, Theatre, and Communication Arts (3000 level or above)	6
Approved electives*	<u>19-16</u>
Total	<u>25-22</u>
Grand Total	120

\* See General Course requirements and Approved Electives in Liberal Arts section.

\*\*The nine hours of foreign language must be in the same language. Students may, however, opt to take twelve hours in two foreign languages (six hours each of two languages). With the twelve-hour option, there are three fewer hours of approved electives.

<sup>1</sup>Course satisfies College requirement of oral competency.

Students should expect that the Department of Film, Theatre, and Communication Arts may retain some or all work written or created as a classroom assignment.

#### Minor in Film, Theatre, and Communication Arts

Students must complete the following requirements for a minor in Film, Theatre, and Communication Arts:

- A minimum of 14 credit hours with a grade of C or better in the following courses:
  - Film, Theatre, and Communication Arts 1005
  - Film, Theatre, and Communication Arts 1620
  - Film, Theatre, and Communication Arts 1800(1) and/or 2800 (1-2)
  - Film, Theatre, and Communication Arts 4400
  - Film, Theatre, and Communication Arts 4540
- An additional six hours selected from Film, Theatre, and Communication Arts courses numbered 2000 or above.

#### Honors in Film, Theatre, and Communication Arts

Students wishing to graduate with honors in Film, Theatre, and Communication Arts must meet the following requirements:

- A cumulative grade-point average of 3.5 in all Film, Theatre, and Communication Arts courses taken and an overall grade-point average of 3.25.
- Completion of Film, Theatre, and Communication Arts 3099 (Senior Honors Thesis) for six credits, in addition to the usual course requirements for the degree.
- Satisfactory performance in an oral examination defending the thesis before a committee composed of the thesis director, a representative of the Honors Program, and one other faculty member

of the Department of Film, Theatre, and Communication Arts.

### CURRICULUM IN FINE ARTS

Students majoring in Fine Arts may elect one of two options:

1. Studio Art
2. Art History

Department of Fine Arts Course Requirements	Cr. Hrs.
Fine Arts 1050, 1051, 1060, 1061	12
Fine Arts 2201, 2202	6
Fine Arts 2550, 2650, 2750	9
Fine Arts Option <sup>1</sup>	12
Art History (3000 level or above)	6
<b>Total</b>	<b>45</b>

College of Liberal Arts Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)*	6
Literature*	6
Foreign Language*	9-12
Social Science electives*	12
<b>Total</b>	<b>33-36</b>

Non-College of Liberal Arts Course Requirements	Cr. Hrs.
Mathematics*	6
Computer Literacy* <sup>2</sup>	3
Sciences*	9
<b>Total</b>	<b>18</b>

Electives Course Requirements	Cr. Hrs.
Non-Fine Arts at the 3000 level or above*	6
Approved electives*	18-15
<b>Total</b>	<b>24-21</b>
<b>Grand Total</b>	<b>120</b>

\*See General Course Requirements and Approved Electives in Liberal Arts Section.

<sup>1</sup>Three courses in advanced studio practice (3000-level) in the chosen area of specialization followed by senior project in the same area (4000-level). Advanced studio practice and senior project courses in areas of concentration fulfill the College requirement for oral competency.

<sup>1</sup>FA 1051 or any course in the sequence FA 2550-3553 with digital content also fulfills the College computer literacy requirement.

Students electing the Studio Art option must complete satisfactorily the following:

1. A minimum of 45 hours in Fine Arts including 1050, 1051, 1060, 1061, 2201, 2202, 2550 (imaging), 2650 (sculpture), 2750 (painting) and six additional hours of art history at the 3000 or 4000 level.
2. Nine hours in advanced studio practice (3000-level) in a studio area of specialization chosen from the following: imaging (including photography, printmaking or digital art), sculpture, or painting, followed by senior project (4000-level) in the same area. Courses within a studio area form a continuous sequence from the introductory level through senior project course (Fine Arts 2550-4550, 2650-4650, 2750-4750). No student may enroll in any level of a sequence who has not received a grade of C or better in the course of the previous level.

Students may expect that a limited number of class projects will be kept for display and for a permanent collection.

#### Art History Option

Department of Fine Arts Course Requirements	Cr. Hrs.
Fine Arts 1050 or 1051 and 1060	6
Fine Arts 2201, 2202	6
Art History Distribution	27
Fine Arts 3203 <sup>1</sup>	3
<b>Total</b>	<b>42</b>

College of Liberal Arts Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)*	6
Literature*	6
Foreign Languages <sup>2</sup>	12
Social Science electives*	12
<b>Total</b>	<b>36</b>

Non-College of Liberal Arts Course Requirements	Cr. Hrs.
Mathematics*	6
Computer Literacy* <sup>3</sup>	3
Sciences*	9
<b>Total</b>	<b>18</b>

Electives Course Requirements	Cr. Hrs.
Non-Fine Arts at the 3000 level or above*	6
Approved electives*	18
<b>Total</b>	<b>24</b>
<b>Grand Total</b>	<b>120</b>

\*See General Course requirements and Approved Electives in Liberal Arts section.

<sup>1</sup>FA 3203 fulfills the College requirement for oral competency.

<sup>2</sup>All twelve hours of the Foreign Language requirement must be in one language.

<sup>3</sup>FA 1051 or any course in the sequence FA 2550-3553 with digital content also fulfills the College computer literacy requirement.

Students electing the Art History Option must complete satisfactorily the following:

1. A minimum of 42 hours in Fine Arts including 1050 or 1051, 1012, 2201 and 2202.
2. 27 hours in art history courses at the 3000 level or above. These courses should be distributed among at least three of the following periods or areas:
  - a. Ancient through Medieval,
  - b. Renaissance through Baroque,
  - c. Eighteenth century through Contemporary,
  - d. Non-Western Art, and
  - e. Museum or Gallery internship. Independent Study in Art History and Fine Arts 3293 may not be used to satisfy this distribution requirement.
3. Fine Arts 3203. Art History majors may not register for FA 3203 before having completed at least 24 hours at the 3000 level or above. FA 3203 fulfills the College requirement for oral competency.

#### Minors in Fine Arts

A minor in Fine Arts, Studio Art Option, requires that the student take a total of 18 credit hours in art studio courses including the following:

- Freshman and Sophomore Years—Fine Arts 1050 or 1051, 1060, and 1061.
- Junior Year—9 hours of studio art, 2000 level and above.

A C or better must be earned in each course. The courses may be taken as elective credits at any point in the undergraduate curriculum provided that the student adheres to prerequisites and course-level restrictions listed in the catalog.

A minor in Fine Arts, History Option, requires that the student take a total of 18 credit hours in art history courses including the following:

- Freshman Year—Fine Arts 1010.
- Sophomore Year—Fine Arts 2201, 2202.
- Junior and Senior Years—9 hours of art history at 3000 level and above.

A C or better must be earned in each course. The courses may be taken as elective credits at any point in the undergraduate curriculum

provided that the student adheres to prerequisites and course-level restrictions listed in the catalog.

Although Fine Arts 1010 is not a prerequisite to Fine Arts 2201 and 2202, it is suggested that it be taken first to serve as an introduction to the vocabulary of artistic form.

### Honors in Fine Arts Studio Option

Students wishing to graduate with honors in Fine Arts Studio Option must meet the following requirements.

1. A cumulative grade-point average of 3.5 in all Fine Arts courses taken and an overall grade-point average of 3.25.
2. Completion of six hours of FA 3299 (Senior Honors Thesis), in addition to the usual course requirements for the degree. Senior Honors Thesis will consist of an autonomous body of visual art supported by an expanded artist's statement.
3. Satisfactory performance defending the thesis director, a representative of the honors program, and one other faculty member of the Department of Fine Arts.

#### CURRICULUM IN FRENCH

##### Department of Foreign Languages

Course Requirements	Cr. Hrs.
French 1001, 1002, 2001, 2002	12
French 3031, 3041, 3042, 3100, 3101, 3205	18
French 3002, 3197, 3500	5
French electives (3000 level or above)	9
Total	44

##### College of Liberal Arts Course Requirements

Cr. Hrs.	
English 1157, 1158 (or 1159)	6
English 2341, 2342	6
History 1001, 1002	6
Social Science elective (outside History)*	3
European History (2000 level or above)	6
Arts*	3
Total	30

##### Non-College of Liberal Arts Course Requirements

Cr. Hrs.	
Mathematics*	6
Sciences*	9
Computer Science 1000	3
Total	18

##### Electives Course Requirements

Cr. Hrs.	
Non-French at 3000 level or above	6
Non-Humanities	4
Approved electives	18
Total	28
Grand Total	120

\* See General Course Requirements and Approved Electives in Liberal Arts Section.

French requirements for French majors:

1. A minimum of 30 semester hours in French courses, not including 1001, 1002, 2001 and 2002.
2. French 3002, 3031, 3041, 3042, 3100, 3101, and 3205. French 3100 and 3101 must be taken prior to, or concurrently with, more advanced literature courses.
3. At least nine hours of French courses, including six hours at the 4000 level.
4. French 3197. This course will fulfill the College requirement for oral competency.
5. French 3500. This course prepares majors for the Written Exit Exam.

General requirements for French majors:

1. English 2341, 2342 (to be taken prior to, or concurrently with, French 3205, 3100, 3101).
2. History 1001, 1002.
3. European History (six hours of courses numbered above 2000; French 4201 or 4202 may be substituted for three of these hours. If a French course is selected, student must take three hours of social science at the 2000 level or above.)

In all cases college subject requirements should be completed before taking electives. Refer to the University and college requirements for particulars. In conference with a foreign language advisor each student will plan a balanced and coherent program designed for the student's particular needs and interests. Through choice of electives the student may wish to combine the major program with another field of study: a second foreign language and literature, linguistics, the civilization of an area, an allied subject within the humanities, an allied field within the social sciences, sciences, or business administration.

### Minor in French

A minor requiring 18 credit hours of French with a 2.0 grade point average is offered. Specific courses are: 2002, 3031, 3041, 3042, 3100, or 3101, and three additional hours beyond 3101.

### Honors in French

An honors program in French is available to superior students, both French majors and non-majors. Successful completion of this program will carry the designation With Honors in French on the student's diploma.

#### Honors in French for French majors:

To graduate with honors in French, French majors must:

1. Fulfill the usual requirements for French majors.
2. Maintain a minimum cumulative grade-point average of 3.5 in French courses and an overall 3.25 average.
3. Complete a minimum of six credit hours in interdepartmental (Arts and Sciences) honors courses.
4. Receive credit for French 3199 by writing an honors essay, as well as a summary of it to be written in French, approved by three members of the foreign language faculty.
5. During the course of the program, but prior to the writing of the honors essay, the student must demonstrate oral proficiency in the language by means of an examination administered by the faculty.

#### Honors in French for students not majoring in French:

To graduate with honors in French, students not majoring in French must:

1. Complete a minimum of 12 semester hours in French courses numbered 3100 or above. These courses, which must be approved by the French faculty, must include at least six hours in courses numbered 3200 or above.
2. Maintain a minimum cumulative grade-point average of 3.5 in French courses and an overall 3.25 average.
3. Complete a minimum of six credit hours in interdepartmental (Arts and Sciences) honors courses.
4. Receive credit for French 3199 by writing an honors essay, as well as a summary of it to be written in French, approved by three members of the foreign language faculty.
5. During the course of the program, but prior to the writing of the honors essay, the student must demonstrate oral proficiency in the language by means of an examination administered by the faculty.

#### CURRICULUM IN GEOGRAPHY

Students majoring in geography may elect to follow one of three tracks: General Geography, Environmental Analysis, or Geographic Information Systems/Remote Sensing. Each track is designed to give a

common background to all majors.

### General Geography Track

Department of Geography Course Requirements	Cr. Hrs.
Geography 1001, 1002	6
Geography 2151, 2254 or 2356, 2701 <sup>1</sup> , 2801	10
Geography 4805 <sup>2</sup> or 4810 <sup>2</sup> , 4901	7
Geography electives	15
<b>Total</b>	<b>38</b>

College of Liberal Arts Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)	6
English Literature*	6
Foreign Language* <sup>3</sup>	9
Arts*	3
Social Sciences electives* <sup>4</sup>	10
<b>Total</b>	<b>34</b>

Non-College of Liberal Arts Course Requirements	Cr. Hrs.
Mathematics*	6
Sciences*	9
<b>Total</b>	<b>15</b>

Electives	Cr. Hrs.
Non-Geography at 3000 level or above	6
Approved electives*	27
<b>Total</b>	<b>33</b>
<b>Grand Total</b>	<b>120</b>

\* See General Course Requirements and Approved Electives in Liberal Arts Section.

<sup>1</sup>Fulfills the oral competency requirement for Liberal Arts.

<sup>2</sup>Fulfills the computer literacy requirement for Liberal Arts.

<sup>3</sup>The nine hours in foreign language must be in the same language. Alternatively, students may opt to take 12 hours in two foreign languages (six hours in each of two languages). If the 12-hour foreign language option is chosen, reduce approved electives by three hours and six hours of the electives taken must be humanities at the 2000+ level. If the nine-hour option is chosen, then three hours of 2000+ humanities electives must be taken.

<sup>4</sup>Must include three hours outside of geography.

Students electing the General Geography track must complete a minimum of 38 hours in geography including those courses shown above. Geography electives must be selected from the following:

1. One course selected from geography courses numbered from 2401 to 2441.
2. Two courses selected from geography courses numbered 4150, 4158, 4220 to 4320, 4550 and/or 4600 to 4715.
3. Two courses selected from geography courses numbered 3490, 4150, 4158, 4220, 4513 to 4550, 4615, 4821, 4822 and 4833.

A minimum of 19 hours must be in courses numbered 3000 or above. Mathematics 1115 and 1116 and Computer Science 1060 are recommended. Students are expected to consult closely with their faculty advisors to ensure that their electives are appropriate to their proposed specializations within the field.

### Environmental Analysis Track

Department of Geography Course Requirements	Cr. Hrs.
Geography 1001, 1002, 1600	9
Geography 2151, 2254 or 2356, 2701 <sup>1</sup> , 2801	10
Geography 4158, 4805 <sup>2</sup> or 4810 <sup>2</sup> , 4901	10
Geography electives	9
<b>Total</b>	<b>38</b>

College of Liberal Arts Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)	6
English Literature*	6
Foreign Language* <sup>3</sup>	9
Arts*	3
Social Science electives* <sup>4</sup>	10
<b>Total</b>	<b>34</b>

Non-College of Liberal Arts Course Requirements	Cr. Hrs.
Mathematics 1115, 1116	6
Sciences* <sup>5</sup>	9
<b>Total</b>	<b>15</b>

Electives Course Requirements	Cr. Hrs.
Non-Geography at 3000 level or above*	6
Approved electives*	27
<b>Total</b>	<b>33</b>
<b>Grand Total</b>	<b>120</b>

\* See General Course Requirements and Approved Electives in Liberal Arts Section.

<sup>1</sup>Fulfills the oral competency requirement for Liberal Arts.

<sup>2</sup>Fulfills the computer literacy requirement for Liberal Arts.

<sup>3</sup>The nine hours in foreign language must be in the same language. Alternatively, students may opt to take 12 hours in two foreign languages (six hours in each of two languages). If the 12-hour foreign language option is chosen, reduce approved electives by three hours and six hours of the electives must be humanities at the 2000 level or higher. If the nine-hour option is chosen, three hours of 2000 level or higher humanities electives must be taken.

<sup>4</sup>Must include three hours outside of Geography.

<sup>5</sup>Must include eight hours of biological sciences and three hours of chemistry.

Students electing the Environmental Analysis Track must complete a minimum of 38 hours in Geography including those courses shown above. Geography electives must be selected from Geography 2158, 3490, 4150, 4220, 4513, 4514, 4523, 4530, 4540, 4550, 4615, 4821, 4822 and 4833. A minimum of 19 hours must be in courses numbered 3000 or above.

Please note: Students in the Environmental Geography Track must, at a minimum, take Mathematics 1115 and 1116 or equivalent. Eight hours minimum of biological sciences and three hours of chemistry must be taken to fulfill the science requirement. Three hours of earth and environmental science and Computer Science 1060 are recommended.

Students are expected to consult closely with their faculty advisors to ensure that their electives are appropriate to their proposed specializations within the field.

### Geographic Information Systems/Remote Sensing Track

Department of Geography Course Requirements	Cr. Hrs.
Geography 1001, 1002	6
Geography 2151, 2254 or 2356, 2701 <sup>1</sup> , 2801	10
Geography 4805 <sup>2</sup> , 4810 <sup>2</sup> , 4820, 4830, 4901	16
Geography electives (3000 level or above) <sup>3</sup>	3
<b>Total</b>	<b>35</b>

College of Liberal Arts Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)	6
English Literature*	6
Foreign Language* <sup>4</sup>	9
Arts*	3
Social Science electives* <sup>5</sup>	4
<b>Total</b>	<b>28</b>

<b>Non-College of Liberal Arts Course Requirements</b>	<b>Cr. Hrs.</b>
Mathematics 1125, 1126, 3721	9
Sciences*	9
Total	18
<b>Option Requirement</b>	<b>Cr. Hrs.</b>
Select GIS, Remote Sensing or Visualization option <sup>6</sup>	17
Total	17
<b>Electives</b>	<b>Cr. Hrs.</b>
Non-Geography at 3000 level or above	6
Approved electives*	16
Total	22
Grand Total	120

\* See General Course Requirements and Approved Electives in Liberal Arts Section.

<sup>1</sup>Fulfills the oral competency requirement for Liberal Arts.

<sup>2</sup>Fulfills the computer literacy requirements for Liberal Arts.

<sup>3</sup>3000 level or above of non-techniques courses and may not include Geography 3850, 3895, 4991, 4992, or 4993.

<sup>4</sup>The nine hours in foreign language must be in the same language. Alternatively, students may opt to take 12 hours in two foreign languages (six hours in each of two languages). If the 12-hour foreign language option is chosen, reduce approved electives by three hours and six hours of the electives must be humanities at the 2000+ level. If the nine-hour option is chosen, three hours of 2000+ humanities electives must be taken.

<sup>5</sup>Must include three hours outside of geography.

<sup>6</sup>The visualization option requires only 16 hours leaving 21 hours available for electives.

Students electing the Geographic Information Systems/Remote Sensing Track must complete a minimum of 38 hours in geography, including those courses shown above. Geography electives must be selected from courses at or above the 3000 level but may not include Geography 3850, 3895 or 4990. In addition, students must complete the courses listed in one of the following options:

1. GIS Option: Geography 4831 and 4832; and either Geography 4815 or 4825; Computer Science 1581, 1583, 2120; 2121; and either Computer Science 2125 or 3601.
2. Remote Sensing Option: Geography 4821; and one out of Geography 4158, 4550, or 4833; Computer Science 1581, 1583, 2120, 2121; and Biology 2663.<sup>6</sup>
3. Visualization Option: Two out of Geography 4831 and 4832; Fine Arts 1050 and 1051; Computer Science 1581 and 1583.

Note: Biology 1061 and 1063 are prerequisites for Biology 2663

Students are expected to consult closely with their faculty advisors to ensure that their electives are appropriate to their proposed specializations within the field.

### **Certification in Remote Sensing, and Geographic Information Systems**

A certificate in Remote Sensing and Geographic Information Systems (RS/GIS) is available to any student who completes one of the following tracks and receives a "C" or better in each of the courses taken.

1. Basic Certificate in Remote Sensing and Geographic Information Systems: (12 hours) This certificate is designed to support the needs of students who require RS/GIS skills as part of an educational emphasis that is not focused on RS/GIS, but anticipate working in a setting in which a basic understanding of these concepts and technologies is helpful. All students must have prior credit in Geography 2801 (or an approved substitute course) and complete the following requirements: Geography 4805, 4810, and

4830. In addition, all students shall select one course from Geography 4820, 4821, 4831, 4832, 6820, 6825, or an approved course from a department other than Geography.

2. Professional Certificate in Remote Sensing and Geographic Information Systems: (21 hours) This certificate is designed to support the needs of students who anticipate a central role for RS/GIS in their professional careers, but who do not wish to pursue a RS/GIS track within a geography degree program. All students must show prior credit in Geography 2801 (or an approved substitute course) and complete the following requirements: Geography 4805, 4810, 4820, 4830, and 4831. In addition, all students shall select two courses from Geography 4821, 4832, 6820, 6825; or one course from the preceding sequence and an approved course from a department other than Geography.

### **Minors in Geography**

The department offers several minor areas of concentration each of which requires the completion of 18 credit hours in geography with a 2.0 grade point average.

**Minor in Geography:** Geography 1001 or 1002, six hours selected from among geography courses at the 2000 level, and nine hours selected from among geography courses at the 3000 level or above.

**Minor in Environmental Analysis:** Geography 1600, 2151, and 2801, plus nine hours selected from among Geography 2158, 3490, 4158, 4220, 4513, 4514, 4530, 4540, 4550, 4810, 4822 and 4833.

**Minor in Cartography, Remote Sensing, and GIS:** Geography 2801, 4805, and 4810, plus nine additional hours selected from among Geography 4820, 4821, 4830, 4831, and 4832.

### **Honors in Geography**

An honors program is available for qualified students who wish to earn a bachelor's degree With Honors in Geography. The requirements for graduating With Honors in Geography include:

1. A cumulative grade point average of at least 3.5 in geography, and a minimum overall grade point average of 3.25.
2. Completion of a Senior Honors Thesis which involves earning six hours in Geography 3895. Enrollment in Geography 3895 must be approved by the director of the University Honors Program. The honors thesis is to be defended orally before a committee composed of the thesis director, another member of the geography faculty appointed by the chairman, and a representative of the honors program.

### **CURRICULUM IN HISTORY**

<b>Department of History Course Requirements</b>	<b>Cr. Hrs.</b>
History 1001, 1002	6
History 2501, 2502	6
History 3001 <sup>1</sup>	3
History electives	24
Total	39

<b>College of Liberal Arts Course Requirements</b>	<b>Cr. Hrs.</b>
English 1157, 1158 (or 1159)	6
Literature*	6
Foreign Language <sup>2</sup>	9
Arts*	3
Social Science electives <sup>3</sup>	6
2000-level or above Humanities	3
Total	33

<b>Non-College of Liberal Arts Course Requirements</b>	<b>Cr. Hrs.</b>
Mathematics	6
Sciences	9
Computer Science 1000	3
Total	18

Electives Course Requirements	Cr. Hrs.
Non-History at 3000 level or above	6
Approved electives	24
Total	30
Grand Total	120

\* See General Course Requirements and Approved Electives in Liberal Arts Section.

<sup>1</sup>This course satisfies the liberal arts oral competency requirement.

<sup>2</sup>The nine hours of foreign language must be in the same language. Alternately, students may opt to take 12 hours in two foreign languages (six hours in each of two languages.) If the 12-hour option is chosen, students may reduce approved electives by three hours; the remaining 19 hours of approved electives must then include three hours of 2000+ humanities.

<sup>3</sup>Must include three hours outside of History.

Students majoring in history must complete a minimum of 39 hours in history. The following courses are required: History 1001, 1002, 2501, 2502, and 3001. In addition, students must complete a minimum of 12 hours of 3000- or 4000-level history electives and 12 hours of additional history electives, any level.

At least nine hours of history electives must be in a chosen concentration: U.S., European, or Non-Western. (The latter includes Africa, Asia, the Middle East, and Latin America). Each student's history electives also must include at least 3 hours of Non-Western and 3 hours from outside the student's chosen field of concentration. Students choosing to major in history should consult with a departmental advisor to plan their program of study.

Advanced courses in foreign language are recommended for students anticipating graduate study.

### Minor in History

To achieve a minor in history the student must complete 18 hours credit in history with a 2.0 average. At least six hours must be in courses numbered 3000 or above. Students should consult with a history advisor in planning a minor.

### Honors in History

History majors who wish to graduate with honors must meet the following requirements:

1. A cumulative grade-point average of at least 3.5 in all history courses taken, and an overall grade point average of 3.25
2. Successful completion, with an oral defense, of a Senior Honors thesis, which includes earning six hours of credit for History 3999 (Senior Honors Thesis). No more than three hours of credit in History 3999 may be included in the minimum 36 hours of history required for the major.

Successful completion of the above requirements will carry the designation With Honors in History on the student's diploma.

### CURRICULUM IN INTERNATIONAL STUDIES

The College of Liberal Arts offers the degree of Bachelor of Arts in International Studies (BAIS) administered through the office of the Dean by the Director of International Studies. The degree's multidisciplinary curriculum draws upon courses in anthropology, economics, English, fine arts, geography, history, philosophy, political science, sociology, and foreign languages. Courses from these disciplines and an internship with a government agency, a non-governmental international agency, or an international corporation comprise the core requirements of the program. Students in this program complete a 24-credit hour concentration in any one of the college's four area studies (Africana Studies, Asian Studies, European Studies, and Latin American and Caribbean Studies) or in any of the four topical themes (Diplomacy and International Organizations; Environmental Issues

and Policy; Ethnicity, Nationalism, and Migration; and Peace & Justice Studies). Other topical themes may be developed by individual students in consultation with faculty advisors and the Director of International Studies.

### CURRICULUM IN INTERNATIONAL STUDIES

International Studies Course Requirements	Cr. Hrs.
Anthropology 4765 <sup>1</sup>	3
Geography 4310	3
Economics 4261	3
Political Science (any two courses from the 4700/4800 series)	6
Sociology 4094 <sup>2</sup>	3
History <sup>3</sup>	6
Total	24

Special Requirements and Prerequisites	Cr. Hrs.
Foreign Language (3000 level or higher, not literature) <sup>4</sup>	6
Approved culture course <sup>5</sup>	3
Economics 1203 or 2200	3
Political Science 2600 or 2700 <sup>6</sup>	3
Sociology 1051	3
Geography 2801 or Political Science 2900 or Sociology 2708	3
Total	21

College of Liberal Arts Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)	6
Literature	6
Mathematics (one course must be MATH 1115)	6
Sciences*	9
Arts*	3
Foreign Language (one language)	12
Computer Literacy <sup>7</sup>	
Oral Competency <sup>8</sup>	
Total	42

Area or Topical Studies <sup>9</sup>	Cr. Hrs.
Total	24

Electives <sup>9</sup>	Cr. Hrs.
Approved electives	9
Total	9
Grand Total	120

\* See General Course Requirements in the Liberal Arts Section.

<sup>1</sup> For BAIS students only, the prerequisite for ANTH 4765 is met by three hours of social sciences.

<sup>2</sup> For BAIS students only, the prerequisites for SOC 4094 are met by SOC 1051 and one of the social science methodology courses listed under Special Requirements.

<sup>3</sup> To satisfy the core curriculum requirements in History, students must take six hours in non-Western history or six hours in diplomatic history. Choices for the non-Western history option are: HIST 2000, 2201, 2202, 2302, 2402, 2701, 2702, 4201, 4301, 4304, 4401, 4403, 4406, or any 4000-level HIST course with a non-U.S./non-European focus. (Note: A student whose primary BAIS concentration is area studies should choose six hours of history unrelated to his or her geographic focus.) Choices for the diplomatic history option are: HIST 4381, 4570, 4575, 4580, and 4581.

<sup>4</sup> Foreign language proficiency must be demonstrated by passing six hours of 3000 level (or above) non-literature courses in a language of choice, or competency may be determined by the Director of International Studies in consultation with the appropriate faculty in the Department of Foreign Languages.

<sup>5</sup> Any 2000-, 3000- or 4000- level course in non-U.S. anthropology, art history, history, literature or culture, music, or philosophy.

<sup>6</sup>Students pursuing concentrations in Area Studies must take POLI 2600; students pursuing concentrations in Topical Themes must take POLI 2700.

<sup>7</sup>The College computer literacy requirement can be met by GEOG 2801, POLI 2900, or SOC 2708.

<sup>8</sup>The College oral competency requirement can be met by any 3000-level or higher foreign language conversation course. If a conversation course is not included in the student's six hours of 3000-level or higher language courses, he or she should include in area or topical studies or in electives a course that fulfills the oral competency requirement for majors in any Liberal Arts discipline.

<sup>9</sup>The 31 total hours of course work taken in area/topical studies and as electives must include 15 hours of social sciences and at least three but no more than six hours of internship in the appropriate area. At least 12 of the 24 hours taken in Area or Topical Studies must be at the 2000-level or above. Some concentrations also require that the courses taken to fulfill the concentration be distributed among a minimum number of disciplines.

#### B.A. IN INTERNATIONAL STUDIES: BUSINESS TRACK

The B.A. in International Studies offers a business track for students seeking a degree program that combines a broad-based liberal arts core curriculum with course work in accounting, marketing, finance, economics, management, and business administration. This program prepares students for careers with international corporations, government agencies, and non-governmental and non-profit agencies that seek professionals with business and financial training, proficiency in at least one foreign language, and a general education in global and cultural issues.

Business Track Curriculum Core Curriculum	Cr. Hrs.
Anthropology 4765 <sup>1</sup>	3
Geography 4310	3
Economics 4261 or 4262 <sup>2</sup>	3
Political Science <sup>3</sup>	6
Sociology 4094 <sup>4</sup>	3
History <sup>5</sup>	6
Total	24

#### Special Requirements and Prerequisites

Core Curriculum	Cr. Hrs.
3000+ Foreign Language (not literature) <sup>6</sup>	6
Approved culture course <sup>7</sup>	3
Economics 1203 and 1204	6
Political Science 2700	3
Sociology 1051	3
Business Administration 2780 <sup>8</sup>	3
Total	24

#### International Business Track

Course Requirements	Cr. Hrs.
(students should take courses in the following order if possible)	
Accounting 2100	3
Marketing 3501	3
Marketing 4546	3
Finance 3300	3
Management 3401	3
Management 4446	3
One course selected from :	
Economics 4261 or 4262,	
Or	
Hotel, Restaurant Tourism 2050 or 4250 <sup>9</sup> , program	
Or	
Business Administration 3048 <sup>10</sup> (or other courses approved by the director of the BAIS)	

Or	
Accounting 4126 <sup>11</sup>	3
Total	21

#### General Degree and College of Liberal Arts

Course Requirements	Cr. Hr.
English 1157 and 1158 (or 1159)	6
Literature	6
Math 1115 <sup>12</sup> and 2314	6
Sciences*	9
Arts*	3
Foreign Languages (one language) <sup>6</sup>	12
Computer Literacy <sup>8</sup>	
Oral Competency <sup>6</sup>	
Total	42

Course Requirements	Cr. Hr.
Electives <sup>13</sup>	9
Total	9
Grand Total	120

\* See General Course Requirements in Liberal Arts Section.

<sup>1</sup>For BAIS students only, the prerequisite for ANTH 4765 is met with 3 hours of social sciences

<sup>2</sup>Students are advised to take FIN 330 before taking ECON 4262.

<sup>3</sup>To satisfy the core curriculum requirement in Political Science, students must choose two courses from the 4700/4800 series..

<sup>4</sup>For BAIS students only, the prerequisites for SOC 4094 are met by SOC 1051 and MATH 2314.

<sup>5</sup>To satisfy the core curriculum requirements in History, students must take 6 hours in non-Western history or 6 hours in diplomatic history. Choices for the nonwestern history option are: HIST 2000, 2201, 2202, 2302, 2402, 2701, 2702, 4201, 4301, 4304, 4401, 4406, or any 4000-level HIST course with a non-U.S./non-European focus. Choices for the diplomatic history option are: HIST 4381, 4570, 4575, 4580 and 4581.

<sup>6</sup>Foreign language proficiency for the BAIS must be demonstrated by passing 6 hours of 3000+ level non-literature courses in a language of choice, or competency to be determined by the Director of International Studies in consultation with appropriate faculty in the Department of Foreign Languages. If a 3000-level conversation course is included in those 6 hours, it will also satisfy the College oral competency requirement. However, if a conversation course is not included, students should include in Electives a course that fulfills the oral competency requirement for majors in any relevant discipline.

<sup>7</sup>The culture course requirement may be met by any 2000-, 3000-, or 4000-level course in non-U.S. anthropology, art history, history, literature or culture, music, or philosophy.

<sup>8</sup>The College computer literacy requirement is met by BA 2780. The prerequisite for BA 2780 is MATH 1115 or 1125 and successful completion of the College of Business Administration computer proficiency test.

<sup>9</sup>Prerequisite: HRT 2050, HRT 3011, or consent of school.

<sup>10</sup>Prerequisite: BA 3010

<sup>11</sup>Prerequisite: ACCT 3122 or consent of department.

<sup>12</sup>Students with an ACT math score lower than 18 or an SAT math score lower than 440 must take DEVM 107 before taking MATH 1115.

<sup>13</sup>The total number of electives can vary depending on how all other requirements are met.

#### CURRICULA IN MUSIC

Students working toward the Bachelor of Arts in Music may elect one of two emphases offered through the College of Liberal Arts: Jazz Studies- or Music Studies. Students may also choose Music Education: Instrumental or Music Education: Vocal, offered through the College of Education. Students working toward the Bachelor of Arts in Music

Education should refer to the curriculum listings in the College of Education section of the catalog. Because of the specific skill development needed for each emphasis, students should follow the appropriate listing of courses.

Students are admitted to the Music Major Program upon recommendation of the faculty in the chosen emphasis area. Please note the following requirements according to emphasis:

1. For Jazz Studies: an audition demonstrating potential for successful completion of required public recitals.
2. For Music Studies: an interview with the area coordinator.

The University is an accredited institutional member of the National Association of Schools of Music.

Students majoring in music must meet the following requirements:

1. Piano through Music 1408 or equivalent as determined by placement examination for Instrumental Music Education, Vocal Music Education and Music Studies majors, except where piano is the major instrumental. Students must also pass a juried proficiency exam in order to graduate. MUS 1407 and MUS 1408 may not be used for music elective credit.
2. Full-time students must enroll in one ensemble appropriate to their emphasis area each semester (except during the student teaching semester for Music Education majors) even though the six-hour requirement may have been fulfilled. Part-time students are strongly encouraged to participate in an ensemble every semester. Any student, whether full-time or part-time, who is enrolled in an applied music course, must enroll in an ensemble. Students with an emphasis in piano or music studies should consult with their advisor to choose an ensemble.
3. All full-time Music and Music Education majors are required to register for Student Recital Hour (MUS 1900) each semester and must meet attendance requirements. Majors with an emphasis in Jazz Studies, and Vocal or Instrumental Music Education are required to perform in at least one Recital Hour each semester (with the approval of the Applied Music Lesson instructor).

#### Jazz Studies Emphasis

Department of Music Course Requirements**	Cr. Hrs.
Music 1003	3
Music 1005	3
Music 1101, 1102 <sup>1</sup>	12
Music 1900 <sup>2</sup>	0
Music 2005, 4103, 4106 <sup>3</sup>	3
Music 2109, 2110	6
Music 2205	3
Music 3705, 3706	4
Music 3990 <sup>2</sup>	0
Music 4109, 4110, 4705, 4706	10
Music 4807	2
Music 3990 <sup>4</sup>	0
Ensemble <sup>2</sup>	6
Vocal/Instrumental major <sup>5</sup>	18
Music electives <sup>6</sup>	8
<b>Total</b>	<b>78</b>
<b>College of Liberal Arts Course Requirements</b>	
English 1157, 1158 (or 1159)	6
Literature	6
Foreign Language <sup>7</sup>	9
History 1002	3
Social Science <sup>7</sup>	9
<b>Total</b>	<b>33</b>
<b>Non-College of Liberal Arts Course Requirements</b>	
Mathematics*	6
Science*	9
<b>Total</b>	<b>15</b>

Grand Total 126

\*See General Course Requirements and Approved Electives in Liberal Arts Section. NOTE: Students must earn six hours of 3000+ course work in non-music studies. The most efficient way to fulfill this requirement is to take at least six of the nine hours of required social sciences at the 3000+ level, thereby fulfilling two requirements at once. Students may choose to fulfill the 3000+ requirement by taking courses in other areas of concentration (i.e., humanities, business administration, sciences) but doing so will not reduce the number of social sciences hours required.

\*\*The nine hours in foreign language must be in the same language. Alternatively, students may opt to take 12 hours in two foreign languages (six hours in each of two languages).

<sup>1</sup>Piano proficiency at MUS 1102 level prerequisite to MUS 2109. Determine by placement exam.

<sup>2</sup>See music major requirements listed under Curricula in Music.

<sup>3</sup>Meets College computer literacy requirement.

<sup>4</sup>Recital must be presented in final semester of applied study. Satisfies College oral competency requirement.

<sup>5</sup>Two semesters of additional applied lessons may be taken at subsidized applied lesson rate.

<sup>6</sup>Six hours must be non-ensemble.

<sup>7</sup>At least three hours must be non-History. Six Hours must be 2000+.

#### Music Studies Emphasis

Department of Music Course Requirements**	Cr. Hrs.
Music 1005	3
Music 1101, 1102	12
Music 2005 <sup>1</sup>	3
Music 2101, 2102, 2103, 2104 <sup>2</sup>	8
Music 2201, 2202, 1003, 1004 (any 2)	6
Ensemble <sup>3</sup>	6
Music electives <sup>4</sup>	16
<b>Total</b>	<b>54</b>

College of Liberal Arts Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)	6
Literature	6
Foreign Language <sup>5</sup>	9
History 1002	3
Social Science <sup>6</sup>	9
<b>Total</b>	<b>33</b>

Non-College of Liberal Arts Course Requirements	Cr. Hrs.
Mathematics*	6
Sciences*	9
<b>Total</b>	<b>15</b>

Electives	Cr. Hrs.
Fine Arts <sup>7</sup>	3
Non-Music electives	15
<b>Total</b>	<b>18</b>
<b>Grand Total</b>	<b>120</b>

\*See General Course Requirements and Approved Electives in Liberal Arts Section.

\*\*Piano proficiency through Music 1408 unless jazz theory sequence is chosen. See music major requirements listed under Curricula in Music.

<sup>1</sup>Meets College computer literacy requirement.

<sup>2</sup>Students may substitute the jazz theory sequence of MUS 2109, 2110, 2605, and 2606. Permission of jazz area required.

<sup>3</sup>See music major requirements listed under Curricula in Music.

<sup>4</sup>May include up to four semesters applied lessons, by audition only.

Only three hours of ensemble may be applied to the degree. Nine hours must be non-ensemble and 3000 level or higher.

<sup>5</sup>The nine hours in foreign language must be in the same language. Alternatively, students may opt to take 12 hours in two foreign languages (six hours in each of two languages). If the 12 hours in two foreign languages are chosen, reduce approved electives by three hours.

<sup>6</sup>At least three hours must be outside History, and six hours must be 3000 or above.

<sup>7</sup>To be chosen from fine arts or drama.

### Minors in Music

The Music Department offers two options for students who wish to pursue a minor in music. Students electing Option 2 must audition on their instrument or voice to be accepted into that option.

#### Option 1

This option requires the completion of 20 credit hours in music with a grade of C or better in each course.

1. Twelve hours of Theoretical Foundations (Music 1101, 1102).
2. Six hours from the following: Music 1000, 1003, 1004, 2201, 2202 (Music 2201 and 2202 by consent of department).
3. Two hours of Ensemble (Music 1900 series).

#### Option 2

This option requires the completion of 22-23 credit hours in music with a grade of C or better in each course.

1. Twelve hours of Theoretical Foundations (Music 1101, 1102).
2. Three hours from the following: Music 1000, 1003, 1004, 2001, 2002 (Music 2201 and 2201 by consent of department).\*
3. Six hours of Applied Music (to be chosen from Applied Music Major courses or class instruction based upon audition). \*\*
4. Two hours of Ensemble (Music 1900 series).

\*For students whose applied area is Keyboard, three hours to be chosen from the Music Appreciation or History area will be substituted for the piano class component in Music 1101/1102.

\*\*Lesson fees for non-majors will apply.

### Honors in Music

Students wishing to graduate with honors in music must meet the following requirements:

- I. A cumulative grade-point average of 3.5 in all music courses taken and an overall grade-point average of 3.25.
- II. Completion of Music 3099 (Senior Honors Thesis) for six credits, in addition to the usual course requirements for the degree. These credits must be completed within three consecutive semesters.
- III. Satisfactory performance in an oral examination defending the thesis before a committee composed of the thesis director, a representative of the Honors Program, and one other faculty member of the Music Department.
  1. Jazz Studies Emphasis
    - a. Student must perform or have a composition performed in at least two Music 1900 (Recital Hour) programs during each semester of thesis enrollment.
    - b. In the senior year, student must present at least one approved off-campus performance.
  2. Music Studies Emphasis
    - a. Student must present a lecture in at least two Music 1900 (Recital Hour) programs during each semester of the thesis enrollment.
    - b. In the senior year, student must present at least one approved off-campus lecture.

### CURRICULUM IN PHILOSOPHY

Department of Philosophy Course Requirements	Cr. Hrs.
Philosophy 3030	1
Philosophy electives	<u>29</u>

Total	30
<b>College of Liberal Arts Course Requirements</b>	
English 1157, 1158 (or 1159)	6
English Literature*	6
Foreign Language*	9-12
Social Science electives <sup>1</sup>	12
Arts*	<u>3</u>
Total	36-39

<b>Non-College of Liberal Arts Course Requirements</b>	
Mathematics*	6
Sciences*	9
Computer Literacy*	<u>3</u>
Total	18

<b>Electives</b>	
Non-Philosophy at the 3000 level or above*	6
Approved electives*	<u>30-27</u>
Total	<u>36-33</u>
Minimum Grand Total	120

\* See General Course Requirements and Approved Electives in Liberal Arts Section.

<sup>1</sup> Must include two different subject areas and six hours at the 2000 level or above.

A minimum of 30 semester hours of philosophy, at least 15 of which are in courses numbered 3000 or above, is required for the major in philosophy. Not more than three hours of 1000-level courses will be allowed to count toward this 30-hour total. Majors are required to take Philosophy 3030 during their senior year. Majors are also required to complete at least one course in each of the four central areas of philosophy: logic, value theory, history of philosophy, and metaphysics/epistemology. A course's area can be identified by the second digit of its catalog number, a "1" for logic, a "2" for value theory, a "3" for history of philosophy, and a "4" for metaphysics and epistemology. Courses having any other number as second digit does not satisfy a distribution requirement.

Philosophy majors are required to demonstrate computer literacy by receiving credit for Computer Science 1000, or any other three-credit course offered by the Department of Computer Science, or any three-credit course which satisfies the computer literacy requirement in the curriculum of any other major at UNO. In unusual circumstances, one or more of these requirements may be waived. A student seeking such an exemption should petition the department.

Philosophy majors should, in consultation with a departmental academic advisor, plan in advance a well-balanced and coherent program of study tailored to their particular needs and interests. They are also strongly encouraged to retain the same academic advisor throughout their years as a philosophy major.

### Minor in Philosophy

A minimum of 18 credit hours of philosophy, with a grade-point average of at least 2.0, is required for a minor in philosophy. At least six hours must be in courses numbered 3000 or above; another six hours must be in courses numbered 2000 or above. Minors in philosophy are also required to complete at least one course in each of three of the four central areas of philosophy, as defined in the requirements for majors.

### Honors in Philosophy

Philosophy majors are eligible to enter the department's honors program during the senior year. To graduate with honors, students must meet the following requirements:

1. A cumulative grade-point average of at least 3.5 in philosophy

courses, an overall grade-point average of at least 3.25, and acceptable completion of a senior honors thesis (including six hours of credit for Philosophy 3001).

- Students must arrange for a faculty member in the department to direct the thesis. After completion, the thesis must be defended orally before a committee composed of the thesis director, another member of the department, and a representative of the University Honors Program.

#### CURRICULUM IN POLITICAL SCIENCE

Department of Political Science Course Requirements	Cr. Hrs.
Political Science 2151, 2600 or 2700, 2900 <sup>1</sup> , 4999 <sup>2</sup>	10
Political Science electives	24
<b>Total</b>	<b>34</b>

College of Liberal Arts Course Requirements	Cr. Hrs.
Arts*	3
English 1157, 1158 (or 1159)	6
English Literature*	6
Foreign Language*	9
History 2501, 2502	6
Social Science and Humanities electives (non-political science at or above 3000 level)*	12
<b>Total</b>	<b>42</b>

Non-College of Liberal Arts Course Requirements	Cr. Hrs.
Mathematics*	6
Science*	9
Economics 1203, 1204, or 2000 level or above	3
<b>Total</b>	<b>18</b>

Electives	Cr. Hrs.
Approved electives	26
<b>Total</b>	<b>26</b>
<b>Grand Total</b>	<b>120</b>

\*See General Course Requirements and Approved Electives in Liberal Arts Section of the University Catalog.

<sup>1</sup>Fulfills the computer literacy requirement for political science majors.

<sup>2</sup>Or satisfaction of the oral communications competency requirement through another course with significant oral component; must have approval of the department chair.

#### Pre-Law Concentration

Course Requirements	Cr. Hrs.
Political Science 2151, 2200, 2600 or 2700, 2900 <sup>1</sup> , 4999 <sup>2</sup>	13
Political Science 4170, 4410, 4420, 4440, 4640, 4780, 4820, 4860 (Choose 3)	9
Political Science electives	12
<b>Total</b>	<b>34</b>

College of Liberal Arts Course Requirements	Cr. Hrs.
Arts*	3
English 1157, 1158 (or 1159)	6
English Literature*	6
English 2151, 2152, or 2155	3
Foreign Language *	9
History 2501, 2502	6
Philosophy	3
Sociology 4219, 4911, 4921, 4954; History 4555, 4561, 4562; Economics 4251, 4552; Public Administration 4222; Geography 4310; English 4158 (choose 2)	6
Social Science and Humanities electives (non-political science at or above 3000 level)*	6
<b>Total</b>	<b>48</b>

Non-College of Liberal Arts Course Requirements	Cr. Hrs.
Mathematics*	6
Science*	9
Economics 1203, 1204, or 2000 level or above	3
<b>Total</b>	<b>18</b>

Electives	Cr. Hrs.
Approved electives	20
<b>Total</b>	<b>20</b>
<b>Grand Total</b>	<b>120</b>

\* See General Course Requirements and Approved Electives in Liberal Arts Section of the University Catalog.

<sup>1</sup>Fulfills the computer literacy requirement for political science majors.

<sup>2</sup>Course meets the oral competency requirement. This requirement may also be met through another course with significant oral component; must have approval of the department chair.

#### Minor in Political Science

Students must complete 18 credit hours in political science, including Political Science 2151, 2600, and 2700. The remaining nine hours are to be chosen from political science courses above the 3000 level. A 2.0 average must be achieved in these courses in order to earn the minor.

#### Minor in Political Science with Pre-Law Concentration

Students must complete 18 credit hours in political science. Political Science 2151, and 2200 are required. The remaining 12 hours are to be chosen from Political Science 2450, 4410, 4420, 4440, 4640, and 4860. A 2.0 average must be achieved in these courses in order to earn the minor.

#### Honors in Political Science

Students majoring in political science and wishing to graduate with honors must meet the following requirements: A cumulative grade point average of at least 3.5 in political science courses, an overall grade point average of at least 3.25, and completion of a senior honors thesis which includes earning six hours of credit for Political Science 4991. Students must arrange for a faculty member in the department to direct the thesis; and the thesis is to be defended orally before a committee composed of the thesis director, another member of the department, and a representative of the honors program.

Students concentrating in political science must complete 34 hours in their major, including courses 2151, 2600 or 2700, 2900, and 4999 (which also fulfills the computer literacy requirement) as well as three hours in economics (1203, 1204, or 2000 level or above), six hours in math above 1022, and six hours in History 2501 and 2502.

The nine hours in foreign language must be in the same language. Alternatively, students may opt to take 12 hours in two foreign languages (6 hours in each of two languages). If the 12-hour option is chosen, it reduces approved electives by 3 hours. Be sure that there is at least one humanities course at or above the 2000 level among the electives.

Students must also demonstrate oral communication competence, either by passing Film, Theatre and Communication Arts 2650 or 2660, or by satisfying the significant oral component of any course that includes such a component.

Students with 45 hours or more who have not completed Political Science 2900 are advised to take that course at the first opportunity.

At least 18 hours in political science must be chosen from courses numbered over 3000. At least one course must be chosen in U.S. politics: 4170, 4210, 4600, 4601, 4621, 4630, 4640, 4650, 4653. At least two upper-level courses must be chosen from the fields of comparative politics (course numbers beginning with '47') and/or international relations (course numbers beginning with '48').

Students shall select 12 additional hours in humanities and social

sciences (other than political science) at or above the 3000 level and 22 additional hours in any field.

### CURRICULUM IN BACHELOR OF SCIENCE IN URBAN STUDIES AND PLANNING

The Bachelor of Science in Urban Studies and Planning degree (BSUSP) was approved by the Louisiana Board of Regents in the summer of 2001. The primary objective of the degree is to prepare undergraduate students for entry-level positions that assist professionals in urban planning and related fields in public, private and non-profit organizations. The secondary objective is to prepare undergraduate students for professional or scholarly graduate degree programs in Urban Studies and Urban and Regional Planning or related disciplines. The BSUSP degree is interdisciplinary in nature drawing on the strengths of several subject areas to provide students with a holistic approach to the study of the urban condition. Students select an area of concentration or focus to complement their degree so as to provide in depth understanding of a specific urban topic. These areas of student concentration include: historical preservation, nonprofit leadership, environmental planning, hazard policy studies, transportation studies, geographic information systems (GIS), public culture, urban design and housing and community development. While the BSUSP is not a professional terminal degree, it shares faculty with the Master of Urban and Regional Planning degree (MURP) which is fully accredited by the Planning Accreditation Board, the national accrediting body for planning schools.

General Education Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)	6
Literature	6
Mathematics (must include Mathematics 1115)	6
Sciences <sup>1</sup>	9
English 2152	3
Arts	3
Film, Theatre and Communication Arts 2650	3
Social Sciences <sup>2</sup>	6
Humanities or Social Science Elective	3
<b>Total</b>	<b>45</b>

Foundation Studies	Cr. Hrs.
Computer Science 1000 or Business Administration 2780 or MURP 4081	3
Economics 1203 or Economics 1204	3
Statistics sequence <sup>3</sup>	3
Social Sciences (6 hours from each of 3 subjects) <sup>2</sup>	18
Urban Studies 3002, 4200	6
Urban Studies and related 4000-level course from support areas <sup>2</sup>	30
<b>Total</b>	<b>63</b>

Electives	Cr. Hrs.
Electives Total	12
<b>Grand Total</b>	<b>120</b>

<sup>1</sup>Nine hours. Six hours must be in the same science. At least three hours must be biology.

<sup>2</sup>See Department for a list of acceptable courses.

<sup>3</sup>Geography 2801 or Political Science 2900 or Sociology 2707.

### CURRICULA IN SOCIOLOGY

#### *Bachelor of Arts in Sociology*

Department of Sociology Course Requirements	Cr. Hrs.
Sociology 1051	3
Sociology 2707, 2708 <sup>1</sup>	7
Sociology 4086	3
Sociology electives	17
<b>Total</b>	<b>30</b>

College of Liberal Arts Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)	6
English Literature*	6
Foreign Language* <sup>2</sup>	9
Humanities (2000+)	3
Arts*	3
Social Science electives*	6
<b>Total</b>	<b>33</b>

Non-College of Liberal Arts Course Requirements	Cr. Hrs.
Mathematics*	6
Sciences*	9
<b>Total</b>	<b>15</b>

Electives	Cr. Hrs.
Non-Sociology at 3000 level or above*	6
Approved electives*	36
<b>Total</b>	<b>42</b>
<b>Grand Total</b>	<b>120</b>

\*See General Course Requirements and Approved Electives in Liberal Arts Section.

<sup>1</sup>Sociology 2707 satisfies oral competency requirement. Sociology 2707 and 2708 together satisfy computer literacy requirement.

<sup>2</sup>The nine hours in foreign language must be in the same language. Alternatively, students may opt to take 12 hours in two foreign languages (six hours in each of two languages). If the 12-hour option is chosen, reduce approved electives by three hours; the remaining 31 hours of approved electives must then include three hours of 2000+ humanities.

<sup>3</sup>Students majoring in sociology must complete a minimum of 30 hours in sociology, including 1051, 2707, 2708, and 4086. At least nine hours must be completed from among the following courses: Sociology 4080, 4094, 4101, 4103, 4107, 4124, 4216, and 4219.

### Minor in Sociology

Students must complete the following requirements for a minor in sociology:

1. A minimum of 18 credit hours in sociology with a 2.0 grade point average.
2. Sociology 1051 or equivalent.
3. Sociology 2708 or equivalent. Political Science 2900 or Psychology 2300 will substitute for this requirement but will not reduce the required number of credit hours in sociology.
4. A minimum of nine credit hours in sociology courses numbered 3000 or higher.

### Honors in Sociology

Students wishing to graduate with Honors in Sociology must:

1. Fulfill all requirements for the major in sociology.
2. Maintain a cumulative grade point average of 3.5 in sociology courses and 3.25 overall.
3. Complete a senior honors thesis which includes earning six hours of credit for Sociology 3099.

### American Humanics Certification Program

The Department of Sociology administers the American Humanics Certification Program which is open to any undergraduate major or baccalaureate degree holder. The American Humanics Certification Program prepares students for careers with youth and human service organizations. Program participants must join the American Humanics Student Organization and complete the following courses required for certification.

Course Requirement	Cr. Hrs.
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Accounting 2100	3
Marketing 3501	3
Sociology 4101 or Management 3401 or Management 3411 or Political Science 4101	3
Sociology 4191 <sup>1</sup>	3
Sociology 4192 <sup>2</sup>	3
Sociology 3091 <sup>3</sup>	1
Sociology 3096 and 3097 or Management 3090 or Political Science 4998 or Psychology 3095 or Anthropology 4790 or English 4398 <sup>4</sup>	6
Total	22

<sup>1</sup>Sociology 4191 (Seminar in Not-For-Profit Organizations) is cross-listed with LSU-Shreveport (SOCL 492) and may be taken for UNO credit via the compressed video system.

<sup>2</sup>Sociology 4192 (Practicum in Not-For-Profit Organizations) is a one credit course that must be repeated for at least three hours of credit. This course is cross-listed with LSU-Shreveport (SOCL 392) and may be taken for UNO credit via the compressed video system.

<sup>3</sup>All program participants must attend the American Humanics Training Institute for at least one four-day session at their own expense (estimated cost \$800) for which they will earn one credit of independent study (Sociology 3091).

<sup>4</sup>American Humanics interns must work in a non-profit setting. American Humanics internships require at least a 2.5 overall GPA, or at least a 2.75 GPA in the student's last 30 hours.

Students interested in the American Humanics Certification Program register through the undergraduate coordinator in the Sociology Department.

#### CURRICULUM IN SPANISH

Department of Foreign Languages Course Requirements	Cr. Hrs.
Spanish 1001, 1002, 2001, 2002	12
Spanish 3031, 3041, 3042, 3055, 3100, 3101	18
Spanish 3002, 3197, 3500	5
Spanish electives (including 6 hours at 4000 level)	9
Total	44

College of Liberal Arts Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)	6
English 2341, 2342	6
History 1001, 1002	6
Social Sciences (non-History)*	3
Latin-American or European History	6
Arts*	3
Total	30

Non-College of Liberal Arts Course Requirements	Cr. Hrs.
Mathematics*	6
Sciences*	9
Computer Science 1000	3
Total	18

Electives	Cr. Hrs.
Non-Spanish at the 3000 level or above	6
Non-Humanities	4
Approved electives*	18
Total	28
Grand Total	120

\* See General Course Requirements and Approved Electives in Liberal Arts Section.

#### Spanish requirements for Spanish majors:

1. A minimum of 30 semester hours in Spanish courses, not including 1001, 1002, 2001 and 2002.
2. Spanish 3031, 3041, 3042, 3055, 3100, 3101, and 3002. Spanish 3055

and 3100 and 3101 must be taken prior to, or concurrently with, more advanced literature courses.

3. At least nine hours of Spanish courses beyond 3000, including six hours at the 4000 level.
4. Spanish 3197 will fulfill the College requirement for oral competency.
5. Spanish 3500 – The Written Exit Exam

#### General requirements for Spanish majors:

1. English 2341, 2342 (to be taken prior to, or concurrently with, Spanish 3055, 3100, 3101).
2. History 1001, 1002.
3. Latin-American or European History (six hours of courses numbered above 2000; Spanish 4201 or 4202 may be substituted for three or six of these hours. If Spanish is used, equal number of hours of social science must be elected for each substitution.)

In all cases college subject requirements should be completed before taking electives. Refer to the university and college requirements for particulars. In conference with a foreign language advisor each student will plan a balanced and coherent program designed for the student's particular needs and interests. Through choice of electives the student may wish to combine the major program with another field of study: a second foreign language and literature, linguistics, the civilization of an area, an allied subject within the humanities, an allied field within the social sciences, sciences, or business administration.

#### Minor in Spanish

A minor requiring 18 credit hours of Spanish with a 2.0 grade point average is offered. Specific courses are: 2002 or 2004, 3031, 3041, 3042, 3100 or 3101, and three additional hours beyond 3101.

#### Honors in Spanish

An honors program in Spanish is available to superior students, both Spanish majors and non-majors. Successful completion of this program will carry the designation With Honors in Spanish on the student's diploma.

#### Honors in Spanish for Spanish majors:

1. To graduate with honors in Spanish, Spanish majors must:
2. Fulfill the usual requirements for Spanish majors.
3. Maintain a minimum cumulative grade-point average of 3.5 in Spanish courses and an overall 3.25 average.
4. Complete a minimum of six credit hours in interdepartmental (Arts and Sciences) honors courses.
5. Receive credit for Spanish 3199 by writing an honors essay, as well as a summary of it to be written in Spanish, approved by three members of the foreign language faculty.
6. During the course of the program, but prior to the writing of the honors essay, the student must demonstrate oral proficiency in the language by means of an examination administered by the faculty.

#### Honors in Spanish for students not majoring in Spanish:

To graduate with honors in Spanish, students not majoring in Spanish must:

1. Complete a minimum of 12 semester hours in Spanish courses numbered 3100 or above. These courses, which must be approved by the Spanish faculty, must include at least six hours in courses numbered 3200 or above.
2. Maintain a minimum cumulative grade-point average of 3.5 in Spanish courses and an overall 3.25 average.
3. Complete a minimum of six credit hours in interdepartmental (Arts and Sciences) honors courses.
4. Receive credit for Spanish 3199 by writing an honors essay, as well as a summary of it to be written in Spanish, approved by three members of the foreign language faculty.
5. During the course of the program, but prior to the writing of the honors essay, the student must demonstrate oral proficiency in

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# College of Sciences

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## Steven Johnson, Dean

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The College of Sciences offers degree curricula in biological sciences, chemistry, computer science, earth and environmental sciences, mathematics, physics, and psychology. From course offerings of the various departments, the College of Sciences also prepares students for professional study in medicine, dentistry, medical technology, pharmacy, veterinary medicine, nursing, dental hygiene, occupational therapy, physician's assistant, physical therapy, and respiratory therapy. In several of these, a bachelor's degree is granted upon successful completion of a prescribed two- or three-year program at UNO plus specific professional study.

The departments within the College of Sciences are prepared to advise a prospective student or an enrolled student at any time.

## College of Sciences Degree Requirements

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The College of Sciences has established the following degree requirements which must be completed by all students working toward a baccalaureate degree. Most curricula demand more than the minimum completions designated here and may call for specific courses where the general requirements allow a choice. Each student is held responsible for knowing degree requirements, for enrolling in courses that fit into his or her degree program, and for taking courses in the proper sequence to ensure orderly progression of the program.

### Subject Requirements

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1. Sciences: At least 48 hours in the College of Sciences, to include:
  - a. At least six hours of mathematics. See major for specific course requirements.
  - b. An eight semester-hour sequence including laboratory outside the student's major in one of the following: biological sciences, chemistry, earth and environmental sciences, or physics. The following biological sciences are acceptable: 1073, 1071, 1083, 1081; or 1073, 1071, 2014; or 1083, 1081, 2114. Course descriptions should be consulted for the prerequisites for Biological Sciences 2014 or 2114.
  - c. An additional eight semester hours in science courses other than the student's major. No science credit is given for certain College of Sciences courses designated by the College of Sciences Faculty Council. A list of such courses is available in the College of Sciences office.
2. Humanities and Social Sciences At least 33 hours in the humanities, arts, and social sciences, to include completion of:

- a. English 1158 or 1159 with a grade of "C" or better.
- b. Twelve hours above the freshman level of which at least six must be in literature.
- c. At least six hours in the social sciences and at least three hours in humanities other than English and three hours in arts.

Humanities and social sciences courses must be chosen from the areas of concentration as listed in this catalog under University Regulations with the exclusion of education courses classified as health-safety or physical education. A maximum of three hours in skill courses in music and art (e.g., piano, voice, drawing) will be accepted as humanities electives.

### Requirements for the Baccalaureate Degree

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The degree of Bachelor of Science may be granted upon satisfactorily meeting the following requirements:

1. Completion of the general degree requirements of UNO.
2. Completion of the degree requirements of the College of Sciences.
3. Completion of a program of study established by the department concerned (or for non-departmentalized areas by a college committee). This program must appear in a catalog in force while the student is in residence. If the student breaks enrollment (either voluntarily or by compulsion) for two consecutive semesters (not one semester and a summer term) he/she may not elect a catalog earlier than the one in force at the time of re-enrollment.
4. Approval of all electives by the College of Sciences.

The College of Sciences assists the student in monitoring degree progress by the completion of a preliminary graduation check-out, prepared when the student has completed at least 75 hours towards the degree, and an official graduation check-out prepared the semester before the student is expected to graduate. It is the student's responsibility to verify these check-outs with the department of his or her major and discuss any problems with the undergraduate coordinator and the checkout preparer. This process assures that the student's final transcript meets all the requirements for the baccalaureate degree in his or her major.

### Transfer Students

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A transfer student is expected to meet all admission and degree requirements listed above. He or she should consult with a College of Sciences counselor and the undergraduate coordinator of the major department as soon as possible in order to make maximum use of the transfer credit. General science courses are not acceptable as transfer credit. A student may request a reevaluation of a course for which

credit is denied if the subject matter covered seems to warrant this action. Acceptance of credit by the University does not mean that this credit may always be applied by the student in the chosen curriculum. The college may decline to accept transfer credits in any course in which a grade lower than C has been received.

A transfer student must meet all the quality point averages (overall, college, department, and last 60 hours) listed in the general degree requirements of the University. These requirements are applied to all college work wherever attempted. The transfer student must also have a 2.0 in each of these averages on work attempted at UNO. In addition, a student transferring from another university is required to earn a minimum of 15 hours in his/her major in the College of Sciences at UNO.

## Program Planning

The student should follow the curriculum established by the department as closely as possible. The curricula for the different departments in the college are presented on the following pages. Each student is responsible for the attainment of personal, career, and intellectual objectives. Planning is required if maximum benefit is to be received from the college years; students must examine their own goals and consult an advisor early in order to take full advantage of free electives, science electives, and courses offered to fulfill general degree requirements. For alternative paths to remain available, it is frequently necessary that certain electives be taken during the sophomore year. The departmental advisor or college counselor should be consulted before the end of the freshman year and regularly thereafter.

A normal semester course load is 15 to 16 credit hours. Students who are weak academically must plan either to attend summer school or to extend their program to more than four years. No student may register for more than 19 hours without consent of the dean and no student on probation may register for more than 13 hours. Students in the College should use discretion in registering for more than 17 hours as this would be above the normal load. New freshmen are advised not to register for more than 16 hours unless they have received advanced math placement. Students employed off campus for more than 15 hours a week should consider their academic potential before attempting normal academic loads.

## Electives

Free electives and science electives should be chosen with great care so that they complement the major program in a positive way. Duplication of subject matter is to be avoided. Credit will not be given for courses that cover subject matter similar to that in a course for which the student has previously earned credit. Specific examples of overlapping subject matter are found among statistics and computer-oriented courses offered by different departments and among some physics, mathematics, and engineering courses. Care should be taken when electing courses from these areas and an advisor should be consulted.

All free electives, science electives, and courses submitted to fulfill the general degree requirements must be approved by the student's major department and by the College of Sciences. A wide variety of courses is available to meet these requirements. However, the student should be aware that different departments have different regulations as to what is and what is not acceptable for a degree.

No student in the College of Sciences may use Physics 1001, 1002, 1003, 1004, any mathematics course below the 2000 level as an elective, unless otherwise stated in a particular curriculum. Courses in certain areas such as academic orientation, chorus, band, health and physical education, military science, engineering drawing, nursing, religion, home economics, agriculture, paralegal studies, office administration, and books and libraries may be accepted as unrestricted electives up

to a total of six hours degree credit. If a student feels that more than six hours from any one or a combination of these areas are justifiable within the program, then he or she may present the case to the College for review. In presenting the case the student must demonstrate that the courses are relevant to his or her educational goals. The request to take additional hours in these areas should be made as early as possible in the student's academic career and must be made before registration for the last 30 hours.

## Louisiana Universities Marine Consortium

The Louisiana Universities Marine Consortium (LUMCON) is an organization of the public universities in the state (including the University of New Orleans). LUMCON was chartered in 1979 to develop coordinated marine research and education within the state university system and provide coastal facilities for these programs.

LUMCON's principal facility is the Universities Marine Center at Cocodrie. The Center consists of a 50,000 square foot laboratory-dormitory complex; 95 foot and 55 foot research vessels, numerous small vessels and collecting equipment, and docking and service facilities for all the vessels. Satellite facilities with laboratories, accommodations, and small boats are operational at Port Fourchon and at Fearman Bayou. The Port Fourchon Laboratory provides ready access to salt and brackish marshes, the bays and bayous of the Timbalier and Barataria Bay systems, beaches, and the Gulf of Mexico, while the Fearman Bayou Laboratory provides access to a wildlife refuge on Vermillion Bay, brackish and fresh water marshes, and coastal cheniers.

College courses in the marine sciences offered at all three facilities emphasize extensive field experience and studies of living organisms in their natural habitat and in the laboratory. Enrollment in each course may be limited by space and accommodations available at a particular laboratory, but applicants from member institutions of LUMCON will be given priority. Students enrolled at UNO will register for LUMCON courses through UNO and will pay tuition based on the UNO fee schedule. Credit for such courses will be awarded by UNO and will be recorded on student transcripts. For details of marine science courses to be offered at LUMCON facilities, see course offerings in Biological Sciences and consult the Chairs of the Departments of Biological Sciences and Earth and Environmental Sciences.

## Major Programs

Formal curricula are presented below to guide the student in preparing to enter, or in pursuing, a program in the College of Sciences.

### CURRICULUM IN BIOLOGICAL SCIENCES

This curriculum, which leads to the Bachelor of Science degree, requires 120 hours of course work as described below. All University, College of Sciences, and departmental requirements must be met. This curriculum will allow students the flexibility to pursue a variety of program specializations. Information on these specializations and on career opportunities in the biological sciences is available in a Career Guidance Brochure that can be obtained in the Biological Sciences departmental office. Students are encouraged to take calculus as an elective, especially those planning to attend graduate school.

Biological Sciences majors must earn a grade of C or better in all mathematics and science courses presented to satisfy departmental degree requirements in the curriculum. Each student must complete Biological Sciences 1073, 1071, 1083, 1081, 2014, 2114, 3091, and 4010 as well as a minimum of 23 hours of credit in biological sciences electives. A maximum of four credit hours of 2000-level biological sciences courses may be taken for biological sciences elective credit. Additional 2000-level courses may be taken for elective credit. A maximum of six credit hours of research courses (Biological Sciences 2002, 2092, 3092, and 4091) may be taken for biological sciences elective credit. Additional hours of research courses may be taken for elective credit. A student must take at least five biological sciences elective lecture (or

combined lecture/laboratory) courses at the 3000/4000-level. These courses are designated as belonging to either of two groups of electives, Group I or Group II: Group I electives include the disciplines of molecular, cellular, biochemical, physiological, and structural biology. They are identified by the second digit of the course number and include the numbers 1, 2, 3, 4, and 7. Group II electives include the disciplines of organismic, ecological, evolutionary, and systematic biology. They are also identified by the second digit of the course number and include the numbers 5, 6, 8, and 9. The five electives from Groups I and II must meet the following guidelines:

1. at least two courses must be taken from each group,
2. at least two courses must include a laboratory, and
3. at least two courses must be at the 4000 level.

Biological Sciences 3453, 3854, 4003, and 4713 may be included in either group, but not both. Certain courses are explicitly excluded from selection as Biological Sciences electives but may be taken as electives.

Department of Biological Sciences Course Requirements	Cr. Hrs.
Biological Sciences 1073, 1071, 1083, 1081	8
Biological Sciences 2014, 2114	8
Biological Sciences 3091, 4010	1
Biological Sciences electives	23
Total	40

College of Sciences Course Requirements	Cr. Hrs.
Chemistry 1007, 1008, 1017, 1018	8
Chemistry 2217, 2218	6
Mathematics 1125, 1126 <sup>1</sup>	6
Mathematics 2314	3
Physics 1031, 1032, 1033, 1034 <sup>1</sup>	8
Total	31

Non-College of Sciences Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)	6
Literature	6
Foreign Language <sup>2</sup>	6
Arts <sup>3</sup>	3
Social Sciences	6
Humanities/Social Sciences (2000 level or above)	6
Total	33

Approved Electives	Cr. Hrs.
Total	16
Grand Total	120

<sup>1</sup> Majors sequences may be substituted for the indicated courses. For example, Mathematics 2111, 2112 may be substituted for Mathematics 1125, 1126; Physics 1061, 1062, 1063, 1065 for Physics 1031, 1032, 1033, 1034.

<sup>2</sup> Completion of six credit hours in one foreign language is required. German, French, or Russian is recommended for a student anticipating graduate studies.

<sup>3</sup> Arts courses must be selected from fine arts, drama, or music.

### Minor in Biological Sciences

Departmental and course prerequisites must be observed. Biological Sciences electives may not be chosen from courses designed for non-majors only. Students must achieve a minimal grade point average of 2.0 in at least 19 credit hours of Biological Sciences courses as specified below:

Biological Sciences 1073, 1083, 1071, and 1081 – 8 hours, Biological Sciences electives (2000 level or higher, with a maximum of three hours of research courses) – 11 hrs. In the case of transfer students, a minimum of nine credit hours must be earned in Biological Sciences at UNO.

### Honors in Biological Sciences

An honors program is available to students enrolled in the biological sciences curriculum. To be admitted to the program a student must have completed Biological Sciences 2014 and 2114, while achieving minimal grade point averages of 3.25 overall and 3.5 in biological sciences. In order to graduate with *Honors in Biological Sciences* the student must complete the curriculum with the minimum grade point averages required for admission to the program, complete six credit hours in biological sciences honors courses, earn six additional credit hours in Biological Sciences 4091, and defend a written honors thesis before a committee composed of the faculty research director, another faculty member appointed by the chairman, and a representative of the Honors Program.

#### CURRICULUM IN CHEMISTRY

A grade of C or better is required in each science and math course offered for degree credit for the Bachelor of Science in Chemistry.

##### Bachelor of Science

Department of Chemistry Course Requirements	Cr. Hrs.
Chemistry 1000, 1007, 1008, 1017, 1018	9
Chemistry 2025, 2026, 2117, 2217, 2218	14
Chemistry 3027, 3094, 3411, 3310 <sup>1</sup>	13
Additional Advanced Chemistry <sup>2</sup>	9
Total	45

College of Sciences Course Requirements	Cr. Hrs.
Mathematics 2107, 2108 <sup>3</sup>	6
Mathematics <sup>4</sup>	3
Physics 1061, 1062, 1063, 1065	8
Computer Science 1201, 1203, 1205, or 1581/1583	3
Biological Sciences 1081, 1083, 2114	8
Total	28

Non-College of Sciences Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)	6
Literature	6
Social Sciences	6
Humanities	3
Humanities/Social Sciences (6 hours at 2000 level or above)	9
Arts <sup>5</sup>	3
Total	33

Electives	Cr. Hrs.
Approved Total	14
Grand Total	120

<sup>1</sup> Credit for both CHEM 4310 and 4311 may be used in place of CHEM 3310.

<sup>2</sup> Must be taken from the following: CHEM 3096, 3110, 3610, 4110, 4210, 4310, 4311, 4410, 4510, 4511; BIOS 3453, 4103, 4113, 4153, 4334, 4490 (approval required), 4713; 3 cr. hr. must be at the 4000 level.

<sup>3</sup> Completion of MATH 2111 and MATH 2112 also fulfills all the math requirements for the BS degree.

<sup>4</sup> Must be taken from the following: MATH 2109, 2115 (requires MATH 2109 as prerequisite), 2221, 2314, 2511. MATH 1125 and 1126 may be used as general elective hours.

<sup>5</sup> Arts courses must be selected from fine arts, drama, or music.

### Chemistry Concentrations

**Biochemistry:** Beyond BIOS 1083/1081 and 2114, three semester hours of biology must be taken from BIOS 3453, 4153, 4334, 4490 (requires prior approval), or 4713; six semester hours of biochemistry must be taken (CHEM 4510/BIOS 4103 and CHEM 4511/BIOS 4113); and BIOS 4114 must be taken. Research in biochemistry culminating in a comprehensive written report is highly recommended.

**Chemical Physics:** Requires CHEM 4028, 4310, 4311, and six credit hours in physics beyond the first year level.

**Forensics:** Requires CHEM 1110, 3110, 4110, 4030; MATH 2314; POLI 2450; SOSC 2052. An internship in forensics is highly recommended (if used to receive internship credit, CHEM 3096 may satisfy the CHEM 3094 requirement). BIOS 3453 and 4114 are recommended for students interested in DNA analysis.

**Materials:** Requires CHEM 3027, 3610, 4410, and 4411.

**Medical Chemistry:** Requires CHEM 3027, 4210, 4510, and BIOS 4114. Additional recommended courses include CHEM 4511, computer science courses leading to bioinformatics (CSCI 4567), and Toxicology (offered as EES 4096).

### Minor in Chemistry

An undergraduate minor in chemistry may be obtained by completing 23 credit hours in chemistry with a grade of C or better in each course. Fourteen of the hours shall be at the 2000-level or higher. Neither Chemistry 3094, 3096 nor 3099 can be used to satisfy these requirements. Either CHEM 1028, or CHEM 1007 and CHEM 1008 or their equivalents can be used for a minor. At least nine hours must be completed at UNO.

### Honors in Chemistry

An honors program is available to chemistry majors. Successful completion of the program will result in graduation with *Honors in Chemistry*. To be eligible for admission to the program, a student must have a 3.25 overall average and a 3.5 in chemistry. To remain in the program a student must maintain these averages. Before graduation, a student must complete at least six credit hours of Chemistry 3099, including an oral defense of the honors thesis to a committee composed of a faculty thesis director, another faculty member selected by the department chair, and a representative of the Honors Program.

### CURRICULUM IN COMPUTER SCIENCE

UNO's computer science program is accredited by the Computing Accreditation Commission of the Accreditation Board for Engineering and Technology (CAC/ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - telephone: (410)347-7700. To earn a Bachelor of Science Degree in Computer Science, a student must acquire 128 credit hours as described below, and must satisfy all of the requirements of the University and the College of Sciences. In addition, the following stipulations must be satisfied:

1. Before enrolling in a computer science course, a student must have earned a grade of C or better in all computer science courses which are a prerequisite for it. A grade of C or better must be earned in all science courses, including mathematics and computer science, used to satisfy degree requirements.
2. Computer science electives must be chosen from computer science courses numbered 3000 or above. Computer Science 3601, 3611, and 4690 may not be taken for computer science elective credit.
3. Mathematics electives must have a prerequisite of at least Mathematics 2109 or 2112.
4. The science sequence must be one of: Biology 1073, 1071, 1083, and 1081; or Biology 1073, 1071, and 2014; or Biology 1083, 1081, and 2114; or Chemistry 1017, 1018, 1007 and 1008; or Earth and Environmental Sciences 1000, 1001, 1004, and 1005; or Physics 1061, 1063, 1062, 1065. (In some cases, comparable courses intended for respective majors may also be acceptable.) Science electives must be in biology, chemistry, earth and environmental sciences, or physics, and must include at least three hours in a science other than that of the science sequence. The University requires each student to complete three hours of biology; this requirement may be met through the science sequence, science electives, or free electives.
5. Foreign language electives must include a six-hour sequence.

6. English electives and three additional hours in humanities or social sciences must be above the freshman level. The College and the University require that six of these hours be in literature.
7. Computer Science 4000 (Senior Comprehensive Examinations) must be passed by the student by the final semester of studies.

Mathematics 2107, 2108, and 2109 may be substituted for Mathematics 2111 and 2112. Entering freshmen not qualifying for Mathematics 1126 must take Mathematics 1125; this course may be counted toward degree credit.

Department of Computer Science Course Requirements	Cr. Hrs.
Computer Science 1581, 1583	4
Computer Science 2120, 2121, 2125, 2450, 2467	13
Computer Science 3102, 3301, 4311, 4401, 4501	15
Computer Science 3080, 3090, 4000	2
Computer Science electives	9
<b>Total</b>	<b>43</b>

College of Sciences Course Requirements	Cr. Hrs.
Mathematics 1126, 2111, 2112	13
Mathematics 2314, 3721	6
Mathematics electives	6
Science sequence	8
Science electives	6
<b>Total</b>	<b>39</b>

Non-College of Sciences Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159) and 2152	9
English Literature	6
Humanities or Social Sciences	3
Foreign Language	6
Social Sciences	6
Arts	3
<b>Total</b>	<b>33</b>

Approved Electives	Cr. Hrs.
Total	13
<b>Grand Total</b>	<b>128</b>

### Concentration in Information Assurance

The Department offers a declared concentration in Information Assurance. Students who opt for this concentration are required to fulfill the following requirements:

1. Completion of the following two courses: Computer Science 4621 and 4623;
2. Completion of one "project-oriented" elective course. The following courses may be chosen for this requirement: Computer Science 4208, 4402, 4460, or 4620. Other courses may be substituted upon approval by the Department;
3. Completion of one non-technical elective course. The following courses may be chosen for this requirement: Mathematics 4360 (Mathematical Information Theory), Management 4407 (Management of Technology and Innovation), or Political Science 4410 (American Constitutional Law). Other courses may be substituted upon approval by the Department.

### Concentration in Bioinformatics

The Department offers a declared concentration in Bioinformatics. Students who opt for this concentration are required to fulfill the following requirements:

1. Completion of the following science sequence in Biology: 1083, 1081, and 2114;
2. Completion of the following two courses: Computer Science 4567 and 4568;
3. Completion of Computer Science 4595, or, with permission, Biology 3104, 3453, or 4153. Other "molecular biology/biochemistry" courses may be substituted upon approval by the Department.

Depending on the selected course, this may be counted as a “science elective” or as a “free elective. It should be noted that these upper-level courses may have prerequisite structures involved which may increase a student’s total coursework;

4. Completion of the following two “project oriented” courses: Computer Science 4587 and 4588. Other interdisciplinary course projects may be substituted upon approval by the Department.

### Minor in Computer Science

An undergraduate majoring in a department other than Computer Science may earn a minor in Computer Science by completing the following computer science courses each with a grade of C or better: Computer Science 1581, 1583, 2120, 2121, 2125, 2450, 3301, and one three-credit 4000-level course selected from an approved list. (It should be noted that Mathematics 2721 is a prerequisite for Computer Science 2125.) A transfer student must complete a minimum of nine credit hours in required computer science courses at UNO, and these must include Computer Science 2125 and a three credit 4000-level course from the approved list.

### Honors in Computer Science

An honors program is available to Computer Science majors. Successful completion of the program will result in graduation with *Honors in Computer Science*. To be eligible for admission to the program, a student must complete Computer Science 2125 and must have a faculty member willing to serve as thesis advisor. The student must also have an overall average of 3.25 or better and an average of 3.5 or better in Computer Science courses. In order to remain in the program, a student must maintain these averages.

In order to complete the program a student must do the following: fulfill all graduation requirements for the Bachelor of Science in Computer Science;

1. have an overall average of 3.25 or better and an average of 3.5 or better in computer science courses;
2. earn six credits in Computer Science 3099;
3. produce a written honors thesis and conduct an oral defense before a committee consisting of the faculty thesis advisor, at least one other faculty member selected by the department chairman, and a representative of the Honors Program.

### CURRICULUM IN EARTH AND ENVIRONMENTAL SCIENCES

To earn a Bachelor of Science degree in earth and environmental sciences, a student must receive credit for 126 hours of coursework including the core courses listed below plus the required and elective courses for one of the four CONCENTRATIONS: environmental science and policy, coastal science and restoration, petroleum geology and geology. The curriculum allows students flexibility to pursue a variety of specialties for career opportunities in earth and environmental sciences, environmental science, oil and gas exploration, coastal studies or specializations aimed at graduate study. Specific required and elective course information for the four concentrations can be obtained from the departmental office. Career opportunities and the graduate program information can be found there as well.

#### Department of Earth and Environmental Sciences (EES)

Course Requirements	Cr. Hrs.
EES 1000, 1001, 1002, 1003, 1004, 1005	12
EES 2100, 2000	6
EES 4000, 4099, 4224	8
EES 3400	3
Total	29

College of Sciences Course Requirements	Cr. Hrs.
CHEM 1017	3
MATH 1126 2107	6
BIOS 1073, 1071	4
PHYS 1031 or* 1061	3
Total	16

Additional 18 hours with an eight hour lab/lecture sequence in either biology, chemistry, or physics. This requirement can be fulfilled with:

- BIOS 1083, 1081
- CHEM 1018, 1023, 1028 for 1023
- PHYS 1032, 1033, 1034 or\* 1062, 1063, 1065

\*depending on the specific CONCENTRATION

Remaining hours must be approved, with nine hours at 2000 or above

Non-College of Sciences Course Requirements	Cr. Hrs.
ENGL 1157, 1158 (or 1159) (C or better required)	6
Literature	6
Social Sciences	6
Arts	3
Humanities	3
Humanities or Social Science	9
Total	33

A grade of C or better must be earned in all of the required and elective EES or sciences courses.

All remaining 30 credits are to be taken within the student’s concentration (specifics available in the Department Office)

### Minor in Earth and Environmental Sciences

An undergraduate majoring in another subject may minor in earth and environmental sciences by completing 20 credit hours in EES with a grade of C or better in each EES course taken. The courses must include EES 1000, 1001, and EES 1002 and 1003, and EES 1004 and 1005. At least 8 credit hours must be 2000-level or above and at least nine hours must have been taken at UNO.

### Honors in Earth and Environmental Sciences

An honors program is available to EES majors. Successful completion of the program will result in graduation with *Honors in Earth and Environmental Sciences*. To be eligible for admission to the program, a student must have a 3.25 overall grade average and a 3.5 in EES courses. To remain in the program, a student must maintain these averages. Before graduation a student must have completed at least six hours of EES 3099, including an oral defense of the honors thesis before a committee of the faculty.

### CURRICULUM IN MATHEMATICS

To earn a Bachelor of Science in Mathematics, a student must satisfy all requirements of the University and of the College of Sciences, as well as those of the program described below. In addition, a grade of C or better must be earned in each mathematics and science course taken for degree credit.

Department of Mathematics Course Requirements	Cr. Hrs.
Mathematic 2107, 2108, and 2109, or 2111 and 2112 <sup>1</sup>	10
Mathematics 2115, 2511	6
Mathematics 2221 or 2314	3
Mathematics 3512, 3900, 4101, 4511	9
Mathematics electives <sup>2</sup>	9
Total	37

<b>College of Sciences Course Requirements</b>	<b>Cr. Hrs.</b>
Computer Science 1060, 1201, or 1205 or 1581 and 1583	3
Physics 1061, 1062, 1063, 1065	8
Science electives <sup>3</sup>	12
Total	23

<b>Non-College of Sciences Course Requirements</b>	<b>Cr. Hrs.</b>
English 1157, 1158 (or 1159)	6
English Literature	6
Foreign Language <sup>4</sup>	6
Social Sciences	6
Humanities/Social Sciences (2000 level or above)	6
Arts	3
Total	33

<b>Concentration Area Course Requirements</b>	<b>Cr. Hrs.</b>
Concentration area <sup>5</sup>	12
Approved electives	15
Grand Total	120

<sup>1</sup>Students not adequately prepared to enter a calculus sequence must take appropriate pre-calculus courses without credit toward graduation. Department placement determines the point of admission to these courses.

<sup>2</sup>One course must be chosen outside the concentration area from the following list: Mathematics 4102, 4224, 4311, 4803. The remaining courses must be at the 3000 or 4000 level. Students interested in graduate studies in mathematics are strongly advised to take Math 4102.

<sup>3</sup>Must include three hours in biology and an additional three hours outside of mathematics. A maximum of six hours of engineering courses may be used. Certain science courses are not permitted for degree credit by the College of Sciences.

<sup>4</sup>Foreign language must include a six hour sequence in one language. French, German, or Russian is recommended for students planning graduate studies.

<sup>5</sup>Pre-approved concentration areas and their respective courses are:  
 Actuarial Mathematics: Mathematics 4801, 4802, 4803, 4804  
 Industrial and Applied Mathematics: Mathematics 4224, 4251, 4270, 4280  
 Statistics: Mathematics 4301, 4304, 4311, 4312

Other concentration areas may be selected. Twelve hours of courses numbered 2000 or above shall be taken in a specific department which offers classes with significant mathematical content. Examples of other concentrations include:

Mathematics, Computer Science, Biology, Naval Architecture and Marine Engineering, Earth and Environmental Sciences, Mechanical Engineering, Accounting, or Curriculum and Instruction. All courses taken must be approved by a departmental advisor. A grade of C or better must be earned in each course in the concentration area.

### Honors in Mathematics

An honors program is available to mathematics majors. Successful completion of the program will result in graduation with Honors in Mathematics. To be eligible for admission to the program a student must have a 3.25 overall average and a 3.5 in mathematics (including an average of 3.5 in mathematics courses numbered 2000 or above). To remain in the program the student must maintain these averages. Before graduation, the student must complete Mathematics 4411 and six credit hours of Mathematics 3099, including an oral defense of the honors thesis to a committee composed of the faculty thesis director, another faculty member chosen by the departmental chairman, and a representative of the Honors program.

### Minor in Mathematics

An undergraduate minor in mathematics may be obtained by completing at least 25 credit hours of mathematics courses at the 2000-level or higher with a grade of C or better in each course. At least nine credit hours at or above the 3000 level must be taken at UNO.

### Minor in Actuarial Mathematics

An undergraduate minor in actuarial mathematics may be obtained by completing at least 25 credit hours in mathematics including Mathematics 2314, 4801, 4802, 4803, 4804 with a grade of C or better in each course. At least nine credit hours at or above the 3000 level must be taken at UNO.

### Minor in Statistics

An undergraduate minor in statistics may be earned by completing 25 credit hours in mathematics including Mathematics 4301, 4304, 4311 and 4312 with a grade of C or better in each course. At least nine credit hours at the 4000 level must be taken at UNO.

Minor in Industrial and applied Mathematics:

An undergraduate minor in industrial and applied mathematics may be obtained by completing at least 25 credit hours including mathematics 2115, 2221, 2511, 3221, and 4224 with a grade of C or better in each course. At least nine credit hours must be taken at UNO.

### CURRICULUM IN PHYSICS

The curriculum leading to the Bachelor of Science degree in physics consists of a core sequence containing basic physics, mathematics, and general degree requirements. Students who wish to prepare themselves for an interdisciplinary career should choose an appropriate minor. For degree credit, a grade of C or better must be earned in all physics courses.

#### PHYSICS CORE

#### Bachelor of Science Degree

<b>Department of Physics Course Requirements</b>	<b>Cr. Hrs.</b>
Physics 1061, 1062, 1063, 1065 <sup>1</sup>	8
Physics 2064, 3198, 3301	7
Physics 4150, 4160, 4401, 4501, 4601	15
Physics electives <sup>2</sup>	14
Total	44

<b>College of Sciences Course Requirements</b>	<b>Cr. Hrs.</b>
Mathematics 2107, 2108, 2109 or 2111, 2112	10
Mathematics 2115, 2221	6
Chemistry 1007, 1008, 1017, 1018	8
Computer Science 1201 or 1581 and 1583	3-4
Biological Sciences	3
Mathematics or mathematical physics	3
Total	33

<b>Non-College of Sciences Course Requirements</b>	<b>Cr. Hrs.</b>
English 1157, 1158 (or 1159) and 2152	9
Literature <sup>3</sup>	6
Arts, Humanities, Social Sciences <sup>3</sup>	18
Total	33

<b>Approved Electives</b>	<b>Cr. Hrs.</b>
Total	17-18
Grand Total	128

<sup>1</sup>Physics 1031, 1032, 1033, and 1034 may be substituted with consent of the department.

<sup>2</sup>Six of the unspecified physics credit hours must be chosen from Physics 4302, 4402, and 4503. Students who intend to pursue graduate studies in physics are strongly advised to schedule all three of those courses as well as Physics 4201.

<sup>3</sup>Literature, art, humanities, and social sciences must be chosen to satisfy University and College of Sciences degree requirements.

### Minor in Physics

An undergraduate minor in physics may be obtained by completing 18 credit hours in physics with a grade of C or better in each course. These 18 credit hours will consist of Physics 1061, 1062, 1063, 1065 (or 1031, 1032, 1033, 1034), 2064, 3198, 3301, and 4501 or departmentally-approved alternatives. The last nine hours must be taken at UNO.

### Honors in Physics

An honors program is available to superior students. Successful completion of the program results in graduation with *Honors in Physics*. For admission to the program a student must be enrolled in or have completed Physics 3198 and 4194 and have grade point averages of at least 3.2 overall and in all science courses taken, and at least 3.5 in all physics courses taken. Before graduation the student must complete six hours of Senior Honors Thesis (Physics 4194), present an acceptable honors thesis, and obtain an honors-level grade on a thesis-defense examination.

### CURRICULUM IN PSYCHOLOGY

The Psychology Department offers a Bachelor of Science in Psychology. Students must complete 39 hours with a grade of C or better in each course in their major; at least 15 of these hours must be earned at UNO. In addition, a grade of C or better is required in each science and math course taken for degree credit.

#### Bachelor of Science

Department of Psychology Course Requirements	Cr. Hrs.
Psychology 1000, 1310, 2300	9
Psychology 4010, 4000	3
Psychology electives <sup>1</sup>	27
Total	<u>39</u>

College of Sciences Course Requirements	Cr. Hrs.
Mathematics 1115, 1116 or 1125, 1126, or 2111	5-6
Science sequence <sup>2</sup>	8
Science electives <sup>3</sup>	8
Computer Science 1000 <sup>4</sup>	3
Total	<u>24-25</u>

Non-College of Sciences Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)	6
English Literature	6
Modern Foreign Language	6
Arts	3
Humanities	3
Social Sciences <sup>5</sup>	12
Total	<u>36</u>

Approved Electives	Cr. Hrs.
Total	<u>22-23</u>
Grand Total	122

<sup>1</sup>Elective hours of Psychology must include six courses, meeting the following criteria: at least one course from each group; three additional courses chosen from at least two different groups; and at least three of the six courses must be at the 4000 level.

- Psychology 2110, 2120, 2130, 2200, 4100, 4600
- Psychology 2380, 2400, 4310, 4510, 4530, 4550, 4700
- Psychology 2320, 2340, 4320, 4330, 4340, 4350, 4365

<sup>2</sup>This constitutes a college degree requirement and students must choose among Biological Sciences 1071, 1073, 1081, and 1083; Chemistry 1017, 1018, 1007 and 1008; Physics 1031, 1032, 1033, and 1034; Physics 1061, 1062, 1063 and 1065. Biological Sciences sequence is recommended.

<sup>3</sup>Students may not choose Biological Sciences 1051, 1053, 1061, 1063; Chemistry 1012, and 1020; Computer Science 1000; Physics 1001, 1002, 1003, 1004, 1010, 1020 and 1030. Students must choose at least three hours from Biological Sciences and at least three hours from Chemistry, Earth and Environmental Sciences, or Physics to meet this and the College of Sciences Degree Requirement. Mathematics 1140 may be used as a science elective.

<sup>4</sup>Students may substitute Computer Science 1060, 1201, or 1581 and 1583; doing so reduces the total science elective credit by three hours and increases the electives credit by three hours.

<sup>5</sup>These social science courses must be chosen from outside psychology; six of the 12 hours must be numbered 2000 or above.

### Minor in Psychology

For an undergraduate minor in psychology, a minimum of 18 credit hours is required, including Psychology 1000 and at least two 4000-level courses. Note that there are only two 4000 level psychology courses (4510 and 4530) that students may take without having completed Psychology 1310 and 2300, and these two courses may not be offered each semester. For a student transferring from another university, at least nine of the 18 hours must be earned at UNO. A student may not use credit in both Psychology 1500 and 1520 toward the minor. A grade of C or better in psychology courses must be achieved in order to have the minor listed on the student transcript.

### Honors in Psychology

An honors program is available to superior students majoring in psychology. Successful completion of the program results in graduation with *Honors in Psychology*. For admission to the program, a student must have grade-point averages of at least 3.25 overall and at least 3.5 in psychology courses and must have permission of the department and the Honors Program director. Before graduation, the student must take six hours of Senior Thesis (Psychology 3099), resulting in an acceptable honors thesis.

### Pre-Professional Studies

#### Pre-Medical and Pre-Dental Programs

A student who is interested in medicine or dentistry as a profession should select a degree program which will adequately prepare him or her for entry into professional school yet provide ample opportunity to pursue additional interests in varied academic disciplines. Most schools stress a four-year degree program as the best possible preparation. A student may major in the subject of his or her choice; however, the student and the advisor must be sure that the major program selected either includes those courses required by the medical or dental school or offers sufficient free electives to include 50 or 60 hours of science. The pre-medical/pre-dental advisor in the College of Sciences should be consulted as soon as possible after the student enters the University, and such consultation is encouraged on a regular basis thereafter.

The following are the required courses for entry into LSU and Tulane medical schools to be included in 90 hours of academic work:

Subject	Cr. Hrs.
Biology 1071, 1073, 1081, 1083	8
Chemistry 1007, 1008, 1017, 1018	8
Chemistry 2026, 2217, 2218	8
English 1157, 1158 (or 1159)	6
English Elective (Literature)	3
Physics 1031, 1032, 1033, 1034 or 1061, 1062, 1063, 1065	8
Total	<u>41</u>

The following is a curriculum recommended for all pre-medical or pre-dental students for the freshman year. Programs of study in the

remaining years will be designed in consultation with an advisor in the student's major department.

Subject	Cr. Hrs.
English 1157, 1158 (or 1159)	6
Biological Sciences 1071, 1073, 1081, 1083	8
Chemistry 1007, 1008, 1017, 1018	89
Mathematics <sup>1</sup>	6-10
Electives <sup>2</sup>	0-6
Total	38

The mathematics courses must be selected in accordance with the requirements of the student's major field of concentration and placement test scores.

Elective hours must be chosen from courses satisfying the general degree requirements of the University and/or from required courses in the proposed major.

### Pre-Pharmacy

UNO offers coursework to prepare a student to apply for admission to the College of Pharmacy at Xavier University in New Orleans or to the College of Pharmacy and Health Sciences at the University of Louisiana at Monroe. Approximately two years of college work in specified areas is required to be eligible for admission to either program. A student interested in pharmacy should consult with the pre-pharmacy advisor during his or her first semester at UNO. Additional information about the pre-pharmacy curriculum may be obtained in the office of the College of Sciences (1100 Science Building).

### Pre-Veterinary Medicine

UNO offers coursework to prepare a student to apply for admission to the LSU School of Veterinary Medicine. To be eligible for admission, a student must complete a minimum of 66 credit hours of specified college work. A student interested in veterinary medicine should consult with the pre-veterinary advisor during his or her first semester at UNO. Additional information about the pre-veterinary medicine curriculum may be obtained in the office of the College of Sciences (1100 Science Building).

### Pre-Allied Health Programs

A student planning to enter any of the following programs should contact the appropriate institution during his or her first semester at UNO for detailed information concerning admission. A list of the addresses of these institutions is available in the office of the College of Sciences (1100 Science Building). Since all programs involve competitive admission and each division or school determines its own requirements, completion of the courses listed below is no guarantee of admission. Since admission requirements for these programs change frequently, students should obtain updated advising checklists from the College of Sciences office. Upon completion of the degree requirements for any of these programs, the institution itself, not UNO, awards the degree.

#### PRE-CARDIOPULMONARY SCIENCE CURRICULUM

##### (Respiratory Therapy/Cardiovascular Technology)

This curriculum is designed for students desiring to apply for entry into the professional curricula in Cardiopulmonary Science (Respiratory Therapy/Cardiovascular Technology) offered through the LSU Health Sciences Center. The degree program provides education and training in the areas of prevention, diagnosis, management, and rehabilitation of people with heart and lung disorders. In addition, the baccalaureate therapist and technologist is a potential educator or supervisor in cardiopulmonary departments. To be eligible for admission to the program, a student must complete a minimum of 60 credit hours as specified below.

College of Sciences Course Requirements	Cr. Hrs.
Biological Sciences 1071, 1073, 1081, 1083, 1301, 1303, 2741, 2743	16
Mathematics 1115, 1116 or 1125, 1126	6
Chemistry 1007, 1008, 1017, 1018	8
Computer Science 1000	3
Physics 1031, 1033	4
Psychology 1000	3
Science electives <sup>1</sup>	3
Total	43

Non-College of Sciences Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)	6
Humanities <sup>2</sup>	9
Arts <sup>3</sup>	3
Total	18
Grand Total	61

<sup>1</sup>Recommended: Human Anatomy and Physiology, Organic Chemistry.

<sup>2</sup>Recommended: English, Technical Writing, Advanced Composition, Foreign Language.

<sup>3</sup>Must be chosen from fine arts, music, or theater-related Film, Theatre and Communication Arts.

#### PRE-CLINICAL LABORATORY SCIENCES CURRICULUM

UNO offers the prerequisite courses designed to prepare students for admission to the Department of Clinical Laboratory Sciences, LSU Health Sciences Center. The minimum grade-point average for admission to the program is a 2.5 average (uncorrected) on all college work taken prior to the date of application. A grade of C or better is required in each prerequisite course. Admission is on a competitive basis. Students who successfully complete all requirements will earn a Bachelor of Science in Medical Technology awarded by the Louisiana State University Health Sciences Center.

College of Sciences Course Requirements	Cr. Hrs.
Biological Sciences 1071, 1073, 1081, 1083, 2741, 2743	12
Chemistry 1007, 1008, 1017, 1018	8
Chemistry 2217	3
Mathematics 1115, 1116 <sup>1</sup> , or 1125, 11261	6
Science Electives <sup>2</sup>	3
Total	32

Non-College of Sciences Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)	6
Arts Elective	3
Humanities <sup>3</sup>	9
Social Sciences <sup>4</sup>	6
Total	24

Approved Electives	Cr. Hrs.
Total	12
Grand Total	68

<sup>1</sup>Students may substitute MATH 2314 for MATH 1116 or 1126.

<sup>2</sup>Upper level biology or chemistry course recommended.

<sup>3</sup>Humanities electives must be chosen from those subjects designated as humanities in the LSUHSC catalog. At least three hours must be 2000 level or above.

<sup>4</sup>At least three hours must be 2000 level or above.

#### PRE-OCCUPATIONAL THERAPY CURRICULUM

UNO offers the prerequisite courses designed to prepare the student for admission into the Master of Occupational Therapy (MOT) degree program, Department of Occupational Therapy, School of Allied Health Professions, LSU Health Sciences Center. To be eligible for admission, the student must complete a bachelor's degree (in any field) and must have met the prerequisites listed below.

College of Sciences Course Requirements	Cr. Hrs.
Biological Sciences 1301 <sup>1</sup> , 1303, 1313, 1311 <sup>1</sup>	8
Chemistry 1017	3
Physics 1031, 1033	4
Statistics (Mathematics 2314 or Psychology 1310)	3
Psychology 4530	3
Psychology 2110 or 2120 and 2130 <sup>2</sup>	6
Total	27

Non-College of Sciences Course Requirements	Cr. Hrs.
Sociology 1051	3
Total	3
Grand Total	30

<sup>1</sup>The MOT program requires one lab but UNO requires that biological sciences lectures and labs be taken concurrently.

<sup>2</sup>Psychology of Human Growth and Development (3 credit hours) at Delgado may substitute for this requirement.

#### PRE-PHYSICAL THERAPY CURRICULUM

UNO offers the prerequisite courses designed to prepare the student to apply for admission to the Doctor of Physical Therapy Degree offered by the Department of Physical Therapy, School of Allied Health Professions, LSU Health Sciences Center. To be eligible for admission, the student must have earned a Bachelor's Degree (in any field of the student's choosing) and must have completed the following specific prerequisites for the program.

College of Sciences Non-College of Sciences Course Requirements	Cr. Hrs.
Mathematics 1115, 1116 or 1125, 1126 <sup>1</sup>	6
Biological Sciences 1071, 1073, 1081, 1083	8
Biological Sciences 1301, 1303, 1311, 1313	8
Advanced Biology <sup>2</sup>	3
Chemistry 1017, 1018, 1023 or 1028	8-9
Physics 1031, 1032, 1033, 1034	8
Psychology <sup>3</sup>	6
Psychology 1310 or Mathematics 2314 <sup>4</sup>	3
Total	50-51

Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)	6
English 2151 or 2152	3
Film, Theatre and Communication Arts 2650	3
Total	12
Grand Total	62-63

<sup>1</sup>Must be chosen to meet the requirements of the student's major department.

<sup>2</sup>Biological Sciences 2114, 2743 or 3284 recommended.

<sup>3</sup>Psychology 4530 recommended.

<sup>4</sup>Credit in statistics may be used to meet a math requirement if taught in a math department or a psychology requirement if taught in the psychology department.

#### PRE-PHYSICIAN ASSISTANT CURRICULUM

The prerequisites listed below are designed to prepare the student for entry into the Master of Physician Assistant Studies (MPAS) program offered through the LSU Health Sciences Center on the Shreveport campus. Admission into the program is competitive. Applicants must have a minimum undergraduate cumulative grade point average of 3.0 and 80 hours of direct patient health care experience. Students admitted into the program will complete 27 months of academic and clinical experiences designed to prepare physician assistants to provide comprehensive health care to patients under the supervision of a physician.

College of Sciences Course Requirements	Cr. Hrs.
Biological Sciences 1301, 1303, 1311, 1313	8
Biological Sciences 2741, 2743	4
Biological Sciences Elective (3000/4000 level)	8
Chemistry 1017, 1018	8-9
Mathematics 2314 or Psychology 1310	3
Total	31-32

Non-College of Sciences Course Requirements	Cr. Hrs.
Medical Terminology	3
Total	3
Grand Total	34-35

<sup>1</sup>Must be chosen from anthropology, economics, geography, political science, psychology, sociology.

#### Pre-Allied Dental Fields

Allied dental fields include Dental Hygiene and Dental Laboratory Technology. A student planning to enter either of these two programs should contact the Office of Student Affairs at the LSU School of Dentistry during his or her first semester at UNO for detailed information about the programs including admission requirements. Both programs involve competitive admission with each program determining its own admission requirements. Upon completion of the degree requirements for either of the programs, the institution itself, not UNO, awards the degree. A student interested in a degree in either program should contact the respective program coordinator at LSU School of Dentistry or visit the website <http://www.lsuhs.edu>.

#### Pre-Dental Hygiene — Bachelor of Science Degree

College of Sciences Course Requirements	Cr. Hrs.
Biological Sciences 1071, 1073, 1081, 1083	8
Biological Sciences 1301, 1303, 2743	7
Chemistry 1017, 1018	6
Computer Science 1000 or above	3
Mathematics 1115, 1116 <sup>1</sup>	6
Psychology 1000	3
Total	33

Non-College of Sciences Course Requirements	Cr. Hrs.
English 1157, 1158 (or 1159)	6
English Literature	3
Film, Theatre and Communication Arts 2650	3
Sociology 1051	3
Humanities electives <sup>2</sup>	9
Arts elective	3
Academic Elective	3
Total	30
Grand Total	63

<sup>1</sup>Students may substitute MATH 1140 or MATH 2314 for MATH 1h116

<sup>2</sup>Three hours must be 2000 level or above. May include literature, foreign language, philosophy, speech, history, religious studies.

#### Pre-Dental Laboratory Technology — Associate of Science Degree<sup>1</sup>

Course Requirements	Cr. Hrs.
Chemistry 1017	3
Mathematics 1115, 1116 <sup>1</sup>	6
English 1157, 1158 (or 1159)	6
Sociology 1051	3
Humanities	3
Natural Science (Lecture Only)	3
Arts Elective	3
Total	27

<sup>1</sup>The required six hours mathematics credit cannot be from courses lower than college-level algebra.

# Nursing

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## LSUHSC School of Nursing

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UNO cooperates with the Louisiana State University Health Sciences Center (LSUHSC) School of Nursing by offering the general education courses required for the baccalaureate degree program, a four-year program designed to educate the professional nurse. The program, accredited by the National League of Nursing and approved by the Louisiana State Board of Nursing, prepares the student to take the state licensing examination to become a registered nurse.

### Admission Requirements for the Baccalaureate Degree Program

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Admission to the bachelor of science in nursing program is by competitive application. Minimum requirements are:

1. Satisfaction of the general admission requirements of the LSU System.
2. Achievement of a minimum 2.8 GPA in all prerequisite courses. A grade of C or better must be achieved in all prerequisite courses.
3. Completion of College Algebra, English Composition I, General Biology (Lecture and Lab), General Chemistry, and General Psychology prior to application. The grade point average for these courses must be at least 2.8.
4. Successful completion of an entrance examination.

The Baccalaureate Degree Program admits two classes each year. Deadlines for applications are February 1 for the fall semester and September 1 for the spring semester.

Full information describing the nursing curriculum is contained in the LSUHSC School of Nursing catalog which is available on the web site: <http://www.lsuhs.edu>.

### UNO Courses necessary to meet prerequisite requirements

	Cr. Hrs.
Biological Sciences 1081, 1083, 2743	7
Mathematics 1115 or 1125	3
Chemistry 1017	3
Psychology 1000	3
English 1157, 1158	6
Sociology 1051	3
Arts elective <sup>1</sup>	3
Humanities <sup>2</sup> (any level)	6
Total	<u>34</u>

<sup>1</sup> Must be chosen from fine arts, music, or theater-related FTCA courses.

<sup>2</sup> Humanities subjects are: communications – related drama, English (2000 level or above), foreign language, history, journalism, philosophy, religion and speech.

# Bachelor of Interdisciplinary Studies

The Bachelor of Interdisciplinary Studies is a unique and rigorous degree program administered by the Office of Academic and Student Affairs at the University of New Orleans. The program provides versatility for students seeking to design an academic plan of coherent concentrations through the process of integrative learning. Interdisciplinary Studies (IDS) provides students with a well-developed understanding of an Integrative Learning Plan (ILP) that encompasses a three-track plan of study. Students develop a learning experience that helps meet individual and professional goals while balancing work and life responsibilities with educational opportunities. To meet the diverse social, cultural and educational needs of all students, IDS offers a comprehensive program utilizing both on-campus and off-campus credit opportunities.

Specific requirements for the degree are:

1. General Education Component
  - a. Completion of English 1156, 1157 and 1158 or 1159 with a grade of C or better.
  - b. Three hours of literature from any department.
  - c. Six hours of mathematics numbered 1000 or above.<sup>1</sup>
  - d. Nine hours of science to include a six hour sequence of one science and three hours of another. One of the sciences must be biology and the other one must be chemistry, earth and environmental sciences, or physics.
  - e. Six hours of humanities, to include at least two different subject areas and at least one course above the freshman level.<sup>2</sup>
  - f. Six hours of social sciences, to include at least two different subject areas and at least one course above the freshman level.<sup>3</sup>
  - g. Three hours of art.<sup>4</sup>
2. IDS 1001 Introduction to Interdisciplinary Studies.<sup>5</sup>
3. Integrative Learning Plan: Completion of an interdisciplinary component, representing a clearly defined focus of studies, with a minimum grade point average of 2.25. The component will consist of at least three subjects for a combined total of 36 hours, with at least half (18-credit hours) to be completed after enrolling in the IDS program.<sup>6</sup>
4. A process writing is required as assigned by the department. Guidelines will be provided within the IDS 1001 Introductory Seminar.
5. IDS 3091 Interdisciplinary Studies Capstone.<sup>7</sup>
6. Single-Subject Limitation: A maximum of 30 hours of course work in any one subject can be counted toward credit for the degree. For this purpose, all course work offered in the College of Business Administration will be regarded as a single subject. The same

is true for the College of Education and Human Development and the College of Engineering.

7. Completion of a minimum of 45 hours of courses numbered 3000 or above, with a grade point average of 2.0 (C) or better.
8. Completion of a minimum of 120 hours of course work in courses numbered 1000 and above, with a grade point average of 2.0 (C) or better.
9. No more than one-half the semester hours required for the completion of the IDS degree may be transferred from a 2-yr community college.
10. The last 30 hours of coursework must be completed in degree residency while enrolled with Interdisciplinary Studies.
11. The University of New Orleans is in full compliance with Louisiana Act 356.

## CURRICULUM IN INTERDISCIPLINARY STUDIES

General Education Course Requirements	Cr. Hrs.
English 1156, 1157, 1158 (or 1159)	6
Literature	3
Mathematics <sup>1</sup>	6
Science	9
Humanities <sup>2</sup>	6
Social Sciences <sup>3</sup>	6
Arts <sup>4</sup>	3
<b>Total</b>	<b>39</b>

Degree Specific Requirements	Cr. Hrs.
Introduction to Interdisciplinary Studies <sup>5</sup>	1
Integrative Learning Plan (ILP) <sup>6</sup>	36
Interdisciplinary Studies Capstone <sup>7</sup>	1
Electives and ILP Prerequisites <sup>8</sup>	43
<b>Total</b>	<b>120</b>

<sup>1</sup> Mathematics 1021-1023 may not be used to meet this requirement.

<sup>2</sup> Humanities include course work selected from the Departments of English, Film, Theatre and Communication Arts, Foreign Languages, History, Philosophy and/or Women's and Gender Studies. Transfer course work in religious studies may be applied to fulfill this requirement.

<sup>3</sup> Social sciences include course work selected from the Departments of Anthropology, Economics, Geography, Political Science, Psychology, Sociology and/or Urban Studies.

<sup>4</sup> Arts include course work selected from the Departments of Film, Theatre and Communication Arts, Fine Arts and/or Music. Transfer course work in landscape architecture, dance and/or interior design

may be applied to fulfill this requirement.

<sup>5</sup>The IDS Introductory Seminar is required of all IDS students within their first two semesters of enrollment. Students will engage in an interactive learning experience exploring the principles of integrative learning. This course will be taught utilizing distance learning. This course is graded Pass/Fail.

<sup>6</sup>Integrative Learning Plan (ILP) must contain at least 3 subject areas with course selections representing a central theme or concentration including no more than 15 hours from any one subject area. For the purposes of this restriction, all course work offered in the Colleges of Business, Engineering, or Education and Human Development will be considered as single subject areas.

<sup>7</sup>Independent Study Capstone course for Interdisciplinary Studies majors including readings, advising, reflection paper and oral presentation. In this course IDS majors will build on their knowledge of interdisciplinary relationships between distinct academic disciplines in order to write their final reflection paper and to present an oral report on their integrative learning experience. This course is graded Pass/Fail.

<sup>8</sup>Other creditable course work that may include prerequisites and elective courses to support the ILP or other interests.

### **Honors in Interdisciplinary Studies**

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Students wishing to earn departmental honors in any major should contact the Director of the University Honors Program for guidance.

Interdisciplinary Studies students should ordinarily declare their intent to complete the IDS degree with honors when they initially submit their integrative learning plan (ILP) for departmental approval. IDS majors who wish to graduate with honors must meet the following requirements:

1. a cumulative grade-point average of at least 3.5 within the ILP, and an overall grade point average of at least 3.25;
2. successful completion of a Senior Honors thesis (directly related to the ILP title) which includes earning six hours of Arts and Sciences 3999 and an oral defense. Students must arrange for a faculty member from the ILP component, with approval of the IDS Director or their representative, to direct the thesis. The thesis is to be defended orally before a committee composed of the thesis director, a representative of the IDS department, and a representative of the honors program.

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# Graduate School

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## Scott L. Whittenburg, Dean

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In recognition of its duty to provide a center of learning for the community of New Orleans, the University established a graduate division in 1963, which later became The Graduate School in 1966. Beginning with master's degree programs in chemistry and physics, the Graduate School furthered the expansion of knowledge with graduate programs across the disciplines. In 1965, six graduate degrees were conferred at commencement: one Master of Science in Chemistry and five Masters of Education. In May 1967, the University of New Orleans conferred its first Doctor of Philosophy degree.

The Graduate School in coordination with the Graduate Council, regulates graduate policy across the University. The University currently offers advanced degrees in over 30 master's programs and 12 doctoral programs. Since 2001, UNO has awarded an average of 828 master's and 60 doctoral degrees a year. The programs are designed to provide students with opportunities for comprehensive training in special fields of study, to instruct them in methods of independent investigation, and to foster the spirit of scholarship and research.

The pursuit of research and free inquiry demand rigor, and graduate students are expected to exceed minimum requirements and to master subjects rather than pass courses to simply comply with formal requirements. Coursework at the graduate level should lay the foundation for the individual scholarship of students.

## Admission

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### Types of Admission and Requirements

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#### Degree Program Admission

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Applicants for admission to the Graduate School in a degree program are expected to have the following qualifications:

1. A baccalaureate degree from a university or college approved by a recognized accrediting agency.
2. Point-hour ratios of at least 2.5 for undergraduate work and 3.0 for all graduate and post-baccalaureate work for which a grade is given. (A-4, B-3, C-2, D-1, F-0)
3. Satisfactory academic standing at the last university or college attended.
4. Satisfactory admission test scores (see below).

An applicant who meets all of the above requirements may be granted unconditional admission, if accepted by the program. Program admission standards may be higher than the minimum Graduate

School requirements. Many programs also require application materials beyond transcripts and test scores.

Applicants who fail to meet all the admission requirements may, in rare instances, be considered for probationary admission, but only upon very strong recommendation by the department concerned on the grounds of other evidence of ability to carry out the graduate program successfully. The Dean of the Graduate School will consider the merits of the case and determine whether probationary admission is warranted.

Applicants who are unable to supply complete credentials because they are currently enrolled in a university program may be granted conditional admission provided all records, except for the semester in progress, have been submitted. In such cases complete credentials must be received not later than 30 days after the first day of classes in the fall and spring semester and not later than 15 days after the first day of classes in the summer session, or admission may be cancelled.

#### Non-Degree Graduate Admission

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An applicant who has already earned a baccalaureate degree and who does not intend to pursue another undergraduate or graduate degree should apply to The Graduate School as a non-degree student. Students who apply for non-degree status are not required to submit admission test scores but must submit official copies of the transcript certifying their baccalaureate or graduate degree. Students are strongly encouraged to carefully consider the problems that may arise in selecting this status. Short-term benefits such as temporarily avoiding the admission test may be exchanged for long-term serious disadvantages such as not being able to apply credits earned toward a degree program or not being eligible for prompt consideration for admission to a degree program until admission test scores or complete official transcripts are available. Also, some 6000-level courses are closed to non-degree students. Non-degree students are not eligible for federal financial aid.

Some applicants who apply to a degree program but who have not satisfied all the admission requirements may be admitted as conditional non-degree students temporarily until the missing materials have been supplied. Such non-degree students must supply any missing credentials in the same time period outlined above for degree program students. Conditional non-degree admission does not in any way guarantee subsequent admission on an unconditional basis or admission to a degree program. It should be noted that conditional non-degree status for students intending to study in the areas of Business is rarely given because of the American Assembly of Collegiate

Schools of Business accreditation requirements. A student who has not removed the cause of a conditional status cannot register for a second semester without special permission of their College office or the Graduate School.

Up to 12 hours earned as a non-degree student may be applied to a graduate degree program if and only if the courses carry graduate credit, the work is appropriate to the program, the appropriate graduate faculty recommends the acceptance of the credit hours, and the student is accepted into a degree program.

Non-degree students must read and comply with these provisions and departmental regulations to avoid serious problems.

## Procedures

Applicants should submit the University application form online along with required credentials at least 30 days prior to the beginning of registration for the semester for which they are applying (see late fee below). Credentials include admission test scores and official transcripts of all undergraduate and graduate college work taken, showing any degrees awarded. Transcripts must be sent directly to the Admissions Office from each and every college attended even if no credit was earned and even though the work may be shown on another transcript. The requests for these transcripts must be made early, as some institutions take considerable time to supply them.

Graduate Management Admission Test (GMAT) scores are required for the Master of Business Administration, Master of Science in Accounting, and Master of Science in Hospitality and Tourism Management. GMAT scores are also accepted for the Master of Arts in Arts Administration, the Master of Science in Health Care Management, and the Doctor of Philosophy in Financial Economics. General test scores from the Graduate Record Examination (GRE) must be submitted for all other programs. Some departments also require GRE subject test scores. Admission test scores older than 5 years at the time of registration for the semester for which the applicant wishes to be considered will not be accepted.

University applications must be accompanied by a one-time non-refundable application fee of \$40. An additional \$30 late fee must also be sent for applications received after July 1 for fall semester admission; November 15 for spring semester; and May 1 for summer session.

**RE-ENTRY** Students who have interrupted their residence at the University by not registering for one full year must file an application for re-entry. Degree students must submit supplementary transcripts if any work has been taken at another institution during the interim.

**MULTI-CAMPUS STUDENTS** enrolled in graduate programs at other LSU System universities who wish to take courses at UNO should inquire at the Graduate School of their home institution for the procedure to be followed.

**LETTER OF GOOD STANDING** Students currently enrolled in graduate programs elsewhere who wish to register for transfer credit must submit official transcripts from their current institution. A new applicant and updated transcripts must be submitted each semester the student plans to register.

## International Students

Applicants whose native language is not English are required to submit scores earned on the Test of English as a Foreign Language (TOEFL), a test designed to ascertain proficiency in English and administered in many overseas testing centers. The Graduate School requires a composite score of at least 79-80 on the iBT (internet based), or 550 (paper-based). Individual programs may require higher scores. For additional information on the TOEFL you may visit their web site at [www.toefl.org](http://www.toefl.org). Another English proficiency test accepted by the Graduate School is the International English Language Testing System (IELTS). The minimum band score is 6.5. Applicants must be advanced in English comprehension and be able to participate in class discussions

All admission credentials must be submitted prior to acceptance. Complete records must be on file at the University at least 90 days prior to registration for the semester in which the student desires to start. Fees submitted must be payable in U.S. Dollars.

Those requiring a student visa may not be admitted as non-degree students, may not be admitted on probation, and may not normally be admitted conditionally.

The Graduate School will determine whether the applicant's grades and coursework are equivalent to a bachelor's degree from UNO. A Statement of Financial Support must also be submitted, indicating financial ability to remain at the University long enough to complete degree requirements. An acceptable statement must be submitted prior to evaluation for admission.

All international students are required to participate in the LSU System student medical insurance program. Fees for this insurance will be assessed at registration.

## Fees and Financial Resources

(Consult Fees section.)

## Graduate Assistantships, Fellowships and Scholarships

A number of teaching, research, and service assistantships are available for qualified students in all areas of the University. Graduate assistants may be appointed for the academic year (nine months), fiscal year (12 months), or summer. Graduate assistants must be enrolled as full-time (9 hours in Fall and Spring and 6 hours in Summer) students and maintain a 3.0 grade point average. International graduate assistants who have primary responsibility for teaching a course (TA3) are required to have a TOEFL score of 100 (internet-based score) or 600 (paper-based) or IELTS overall band score of 7.5. Individual graduate programs may have higher requirements.

Assistantships provide a salary, tuition exemption, and a waiver of the non-resident fee. Should a graduate assistant resign or be terminated from the University, the student will be held accountable for all tuition and fees for that semester. Graduate assistants are not permitted to hold employment outside of the University without written authorization from the Dean of the Graduate School. Inquiries and applications should be made directly to the student's degree program or University department.

## Graduate Scholarships

The Graduate School at the University of New Orleans distributes merit-based awards each year. Scholastic performance, test scores, and leadership qualities are among the criteria evaluated. Applicants must be newly *and unconditionally* accepted to a UNO graduate program, have a suitable GRE or GMAT score, meet the GPA requirements for the award and maintain nine hours of coursework each semester (spring and fall). In addition, applicants must be nominated for an award by the program to which they have been admitted. Students should contact their graduate coordinator to initiate the process. All awards are renewable annually for up to two years for master's degree students (three years for MFA students) and four years for doctoral degree students, provided that students maintain the required cumulative GPA, successfully complete nine credit hours each semester, and retain the support of their degree program.

## Master's Student Award

Any student fully admitted into a master's degree program, with 3.0+ undergraduate and/or 3.5+ graduate GPA is eligible for this award. This scholarship provides a waiver of tuition, graduate enhancement fee, and the nonresident fee for the academic year (fall and spring).

## **Master's and Doctoral Level Award**

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### **Marcus B. Christian Graduate Scholarship**

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African-American and other under-represented U.S. minority students accepted to Doctoral and Master's degree programs with a 3.0+ undergraduate GPA and/or 3.5+ graduate GPA are eligible for this award. Strong preference is given to Louisiana residents and to graduates of Southern University in New Orleans and other historically black institutions. This scholarship provides a waiver of tuition, graduate enhancement fee, and the nonresident fee for the academic year (fall and spring).

### **Doctoral Student Award**

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Any student fully admitted into a Doctoral degree program, with 3.0+ undergraduate and/or 3.5+ graduate GPA is eligible for this award. This scholarship provides a waiver of tuition, graduate enhancement fee, and the nonresident fee for the academic year (fall and spring).

### **SREB/BoR/Ernest G Chachere Doctoral Diversity Fellowship**

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Any under-represented U.S. minority student accepted to begin a Doctoral program in the Sciences, with a 3.25+ undergraduate GPA or a 3.5+ graduate GPA, is eligible for this award. While students of the social sciences may apply, strong preference is given to applicants in the physical and mathematical sciences and engineering. This Fellowship provides a waiver of tuition and the nonresident fee for the academic year (fall, spring and summer) and a \$22,000 stipend per year for four (4) years, as well as a Membership in the Southern Regional Education Board (SREB) Doctoral Scholars Program for each of the four (4) years.

## **Student Financial Aid**

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For detailed information go to [www.finaid.uno.edu](http://www.finaid.uno.edu) or write the Office of Student Financial Aid, University of New Orleans, New Orleans, LA 70148.

## **Career and Counseling Services**

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The University, through its centralized Career and Counseling Services, assists students and alumni with their career planning and provides information and materials on career development and employment opportunities. Professional counseling assistance is available to all students and alumni upon request. A permanent Career Information Library is maintained containing literature and publications concerning career fields and employers. The University is a member of the College Placement Council and endorses and follows the principles and practices of this national organization. Research data is continually being developed by this organization and is made available to both students and faculty to keep them currently informed on conditions and opportunities in the job market for college graduates.

During the fall and spring semesters, representatives from business, industry, government, and education visit the Career Planning and Placement Center to interview students for career employment. In order to participate in the interviewing, graduating students should register with the Center early in the fall of the year of their graduation by completing the registration packet. Departmental orientation programs are held each fall to acquaint students with the Career Planning and Placement Program.

A credentials service is available for students on an optional basis and procedures followed are as established in the Family Education Rights and Privacy Act of 1974.

## **Affiliated Research**

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### **Oak Ridge Associated Universities**

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The University of New Orleans is affiliated with the Oak Ridge Associated Universities (ORAU) which provides research collaboration

opportunities with federal research facilities, other universities within the southeast, and corporate organizations. Together the universities work toward acquiring joint opportunities to compete for large research projects, to acquire shared information technology and to work in additional ways made possible by the critical number of universities involved. ORAU also offer opportunities to faculty and graduate students to participate in research through fellowships for graduate students and research affiliations for faculty.

### **Louisiana Universities Marine Consortium**

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The Louisiana Universities Marine Consortium (LUMCON) is an organization of public universities in the state including the University of New Orleans. LUMCON was chartered in 1979 to develop coordinated marine research and education within the state university system and provide coastal facilities for these programs.

LUMCON's principal facility is the Universities Marine Center at Cocodrie. The Marine Center consists of a fifty thousand square foot laboratory-dormitory complex, ninety-five foot and fifty-five foot research vessels, numerous small vessels and collecting equipment, and docking and service facilities for all the vessels. Satellite facilities with laboratories, accommodations, and small boats are operational at Port Fourchon and at Fearman Bayou. The Port Fourchon Laboratory provides ready access to salt and brackish marshes, the bays and bayous of the Timbalier and Barataria Bay systems, beaches, and the Gulf of Mexico; while the Fearman Bayou Laboratory provides access to a wildlife refuge on Vermillion Bay, brackish and fresh water marshes, and coastal cheniers.

College courses in the marine sciences offered at all three facilities emphasize extensive field experience and studies of living organisms in their natural habitat and in the laboratory. Enrollment in each course may be limited by space and accommodations available at a particular laboratory, but applicants from member institutions of LUMCON will be given priority. Students enrolled at UNO will register for LUMCON courses through UNO and will pay tuition based on the UNO fee schedule. Credit for such courses will be awarded by UNO and will be recorded on student transcripts. For details of marine science courses to be offered at LUMCON facilities see course offering in Biological Sciences, and consult the Chairs of the Departments of Biological Sciences and Geology and Geophysics.

### **Louisiana Alliance for Minority Participation (LAMP)**

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The University of New Orleans is a recipient of funds from the National Science Foundation through the Louisiana Board of Regents to implement and administer a program on the UNO campus called the Louisiana Alliance for Minority Participation (LAMP). LAMP goals are to expand and reinforce systemic mentoring, including research participation and guidance to graduate students. The overall goal is to improve minority participation in science and math education and technology. Various LAMP programs introduce students to research tools and methods, provide hands-on research experience, build computer and technology skills, and help students prepare for graduate school.

### **Southeastern Universities Research Association (SURA)**

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The University of New Orleans has been a member of the Southeastern Universities Research Association (SURA) since 1993. SURA is a consortium of colleges and universities in the southern United States and the District of Columbia established as a nonstock, nonprofit corporation. SURA serves as an entity through which colleges, universities, and other organizations may cooperate with one another and with government in acquiring, developing, and using laboratories and other research facilities and in furthering knowledge and the application of that knowledge in the physical, biological, and other natural sciences and engineering.

SURA's goals are to foster excellence in scientific research, to

strengthen the scientific and technical capabilities of the nation and of the Southeast, and to provide outstanding training opportunities for the next generation of scientists and engineers.

The most recent consortium emphases of SURA have focused on Information Technology (IT) and Internet II, advanced materials research, and coastal research activities.

## **GRADUATE REGULATIONS**

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Failure of students to acquaint themselves fully with the organization and regulations of the University and Graduate School may lead to complications for which the student must assume full responsibility.

### **Requirements**

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Graduate degrees are not conferred merely upon the basis of number of courses passed or on length of time spent in residence, but rather upon the basis of the quality and scope of a candidate's knowledge and power of investigation. Requirements listed below must be interpreted with the understanding that the Graduate School prescribes only minimum standards. Individual departments, rather than the Graduate School, gain or lose reputation and standing according to the excellence of training given to their graduate students and for that reason are permitted to demand performance well in excess of the basic Graduate School requirements. A successful graduate student must possess the maturity and determination to satisfy intellectual curiosity. As a rule, students who have made averages lower than B in the major fields as undergraduates are not encouraged to proceed with graduate work.

Meeting specific requirements for admission to, or retention in, the Graduate School does not guarantee admission or permission to enter whatever course or curriculum a student desires to take. The University is not prepared to offer a variety of programs sufficient to meet the demands of all prospective students, nor has it the resources to instruct all who desire to enter. It is forced to concentrate its energies upon students who offer the greatest promise of development in the particular fields in which it is prepared to give training.

### **Departmental Requirements**

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In matters dealing with courses and curricula the Graduate School prescribes certain standards which it enforces. These may be regarded only as minimum requirements. Individual departments commonly set their own standards at higher levels. Graduate students must assume full responsibility for acquaintance with both general regulations and specific requirements of departments in which they pursue major and minor work.

### **Candidacy for a Degree**

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Admission to the Graduate School does not imply admission to candidacy for a degree. Only as a result of one or more semesters of superior work and departmental approval does a student qualify to apply for candidacy for a degree. Students on probation may not apply for candidacy.

### **Degrees for Faculty and Staff**

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The Graduate School will not award the doctoral degree to full-time faculty of UNO above the rank of instructor or to other employees who in the opinion of the Graduate Council are of equivalent status; nor will it permit such persons to register for credit toward a UNO doctorate.

### **Courses**

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All graduate courses for which the student meets the prerequisites are open to graduate students. Courses numbered above 6000 are graduate courses and only open to graduate students. Graduate credit is awarded for courses numbered 4000G-level and above. Graduate credit is not awarded for courses numbered 4000-level and below.

Graduate courses are taught by a member of the graduate faculty, and are taken while the student is enrolled as a graduate student, or under the limited conditions in which an undergraduate may earn graduate credit (see Work by Undergraduates). Graduate students who enroll in 4000G-level courses will be expected to complete assignments conforming to the higher standards of scholarship and research that guide the Graduate School.

### **Maximum and Minimum Course Loads**

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Graduate students enrolled in at least nine semester hours for the fall and spring semesters and six semester hours for the summer are considered full-time enrolled. Students on graduate assistantships, scholarships or fellowships are required to be enrolled full-time. Registration for course loads greater than fifteen semester hours for the fall and spring semesters and twelve semester hours for the summer requires program and Graduate School approval.

### **Work by Undergraduates**

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A UNO undergraduate student who lacks not more than six semester hours for the bachelor's degree may be permitted, after scheduling all required work for the degree, to register for graduate credit in courses numbered below 6000. This privilege applies only during the final semester of undergraduate work and is extended only to students who have maintained an average of B or better during the preceding year at the University. It is extended only upon recommendation of the dean of the student's college. This approval must be obtained prior to the start of the semester involved. The courses for graduate credit must also be approved by the professor under whom the student intends to do major work as a graduate student. The total amount of work, graduate and undergraduate, for which a student covered by this provision may register may not exceed 15 semester hours.

### **Auditors**

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A student may be admitted to classes as an auditor by obtaining admission to The Graduate School in the regular fashion and by receiving the written permission of the instructor of the course. Auditors will not receive university credit, nor will they be permitted to take a credit examination on work audited.

Students may not change from audit to credit after the last day to add a course. With permission of the instructor, they may change from credit to audit within the first 15 class days of the semester (7 class days in the summer).

### **Examinations**

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A student must be enrolled in the University to receive credit in any examination in course work or to satisfy other requirements for advanced degrees. A student may meet this requirement by registering for Examination or Report/Thesis Only (Course Number 7040) and paying a fee of \$15 at registration. Registration for Examination Only (that is, registration in 7040) is allowed for only one semester.

### **Multi-Campus Registration**

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Students enrolled in graduate programs at UNO who wish to take courses at other LSU System institutions should inquire in their College office for the procedure to be followed.

### **Failure to Drop or Resign as Prescribed**

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Once enrolled in a course, there is a prescribed procedure for either dropping or resigning. It is the student's responsibility to follow the required procedures and to meet the deadlines in this catalog for dropping courses and resigning from the University. Failure to comply usually results in a grade of F.

### **Correspondence Study**

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No graduate credit is allowed for work done by correspondence study.

## Transfer of Credit

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The majority of credits toward a graduate degree (either master's or doctoral) must be earned at the University of New Orleans. The maximum hours that can be transferred for doctoral degrees vary. The specific program of interest should be consulted for the limitations and conditions on transfers for doctoral degrees. Only credits earned in courses may be transferred; thesis/dissertation research credits may not be transferred.

- A maximum of 12 hours earned as a non-matriculating student may be used in a master's degree program, if approved by the program and the College.
- A maximum of 12 hours of transfer credit from other schools may be used in a master's degree program, if approved by the program and the College.
- A maximum of 12 hours from one master's degree may apply to a second master's degree, if approved by the program and the College.

To petition for acceptance of these credits, the student must be currently enrolled, must have completed at least nine hours of graduate course work in a degree program at UNO, and must be in good academic standing. Transfer of credit is approved only for course work taken as a graduate student; no work graded lower than a B can be transferred, unless the course is a joint degree program requirement. Transfer credit offered toward a degree is subject to the same time limits as course work taken at UNO.

Graduate work transferred from other institutions may be applied toward degree requirements, but the grades earned will not be computed in the UNO graduate average, unless the course is a joint degree program requirement.

## Graduate Grading System

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Grades in the Graduate School have these meanings:

- A has a value of four quality points per semester hour and indicates superior work.
- B has a value of three quality points per semester hour and indicates satisfactory work.
- C has a value of two quality points per semester hour and is below the expected level of performance. In some departments a course with a C grade may be accepted toward a degree, but, strictly speaking, this grade represents work below the standard expected of a graduate student and should be construed as a warning that further work in the subject may be unwise.
- D has a value of one quality point and indicates unsatisfactory work by the student. A course with a D grade may not be accepted toward a degree.
- F has no quality point value and indicates grossly unsatisfactory work by the student.
- I indicates that the student has done satisfactory work in the course, but because of circumstances beyond the student's control he or she has been unable to finish all requirements. An incomplete is not to be given to enable a student to do additional work to bring up a deficient grade. An I grade in a graduate course will be valid until the last day for turning in grades during the student's next semester of enrollment. For a graduate student in an undergraduate course a grade of I becomes a grade of F if it is not converted before the deadline for adding courses for credit (as printed in the catalog) of the next regular Fall or Spring semester. Before the expiration of time period, one of two developments must take place: 1) the student must receive a standard grade; or 2) the student, by means of a petition which has been endorsed by the faculty member concerned, has received the Graduate Dean's approval for an extension of time. The petition must state the reason for

the request and the length of time needed. If neither of these things is done, the grade of I will automatically revert to an F grade, as the I will if no grade is turned in within the extension period.

- S is a grade given for satisfactory work in certain seminar and research courses, as well as in thesis (7000) and dissertation (7050) progression. If petitioned by the teacher or major professor within 45 calendar days after the last day for submitting final grades, a grade of S may be changed to a regular letter grade.
- U is a grade given for unsatisfactory work in certain seminar and research courses, as well as in thesis (7000) and dissertation (7050) progression. A grade of U serves notice of serious and immediate concern with regard to the student's advancement in the degree program. If petitioned by the teacher or major professor within 45 calendar days after the last day for submitting final grades, a grade of U may be changed to a regular letter grade.
- UW The grade of UW represents an unofficial withdrawal from a semester/term. This grade is administratively awarded only when a student stops attending all classes for the semester/term as noted by faculty attendance records. This grade is not used in calculating a student's grade point averages.
- W means withdrawal. This grade is given when a student drops a course or resigns from the University before the appropriate deadline (see calendar). Credit hours for which a grade of W is recorded are not used in calculating the student's average.
- XF has no quality points and indicates non-attendance.
- XU has no quality points, same as 'U,' and indicates non-attendance. Nondegree undergraduate courses (essentially remedial courses) taken by graduate students may, with prior written approval by the student's department, be treated as pass/fail.

## Grade Appeal Policy

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The course final grade appeal policy provides the student with a safeguard against receiving an unfair final grade in a course, while at the same time respecting the academic freedom of the instructor which is vital to the integrity of the teaching process at the University of New Orleans. The course final grade appeal process strives to resolve a dispute between student and instructor in the assignment of a course final grade at the collegial level. The intent is never to embarrass or disgrace students or instructors, nor to assess penalty or retribution on any party when mistakes are discovered, but instead to provide a neutral forum for the discussion of differences of opinion. Every student has the right to have a request for consideration of his or her final grade reviewed by the chair of the department and a departmental Grade Appeal Committee. The course final grade appeal is confined to charges of unfair action against an individual student and may not involve a challenge of an instructor's class grading standard. It is incumbent on the student to substantiate the claim that his/her final grade in the course represents unfair treatment, compared to the standard applied to the remainder of the class. Only the final grade in a course may be appealed.

## Academic Performance Standards

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A graduate student who fails to maintain a satisfactory academic record will be refused permission to register for further graduate work. A cumulative grade-point average of 3.0 is considered by the Graduate School to be a minimum standard of academic performance. Failure to hold a cumulative 3.0 average on graduate course work will be regarded as sufficient reason for placement of the student on academic probation and for denial of a graduate assistantship. If admitted on probation, a student must make a 3.0 grade-point average in each semester in which the first nine hours of graduate work is

completed or the student will be dismissed from the Graduate School. (For these purposes, the summer session is regarded as a semester.) Failure to meet specific academic performance standards established by the department may also result in the imposition of academic action against the student.

A graduate student who is dropped (or resigns) from the University may be ineligible for readmission for one or more academic semesters (fall or spring), depending on the academic standing at the conclusion of the last semester attended. (See also the catalog provision on Failure to Drop or Resign as Prescribed.)

### **Academic Requirements for a Degree**

To receive a graduate degree, the Graduate School requires that the student have a minimum cumulative grade-point average of 3.0 on all graduate course work, as well as all course work applied specifically to the degree. A grade of D or F in any course may not be used to satisfy degree requirements. A student may not graduate during a semester in which academic probation is imposed. (See also the sections on Graduate Grading System and Academic Performance Required.)

### **Graduation Requirements**

Generally, a student must meet all the requirements for a degree outlined in one catalog. The student may elect any catalog in force during his or her enrollment at the University, provided enrollment is continuous. A student who breaks enrollment (either voluntarily or by compulsion) for five calendar years may not elect a catalog earlier than the one in force at the time of re-entry. Under no circumstances may a catalog more than 10 years old be used. In some instances, program or college graduation requirements may be imposed that are not included in the catalog under which the student has chosen to graduate. These additional or different requirements are well publicized by the colleges involved. There are several requirements which must be completed by all students prior to graduation. The student must:

1. complete all academic requirements for a degree. This includes both the general degree requirements and the particular program of study in which the student is enrolled.
2. ascertain, through the college of the major, that his or her academic record is accurate and complete. This should be done not later than one semester prior to graduation.
3. submit an application to the Registrar's Office for the degree during the registration period of the last semester in residence. The student will be required to make this formal application and state the exact name to appear on the diploma.
4. pay the diploma fee at the last registration. Thesis and Dissertation students will be charged an additional fee to defray the cost for processing the manuscript. A student who has previously paid a diploma fee, but who failed to graduate at the time expected, must reapply and pay the application fee again.
5. have all financial indebtedness to the University cleared prior to graduation.
6. exit interview for financial aid.

A student who does not follow and complete the above requirements and procedures will not be allowed to graduate.

### **Application for Degree (Diploma)**

It is the responsibility of every graduate student to submit an application for degree to the Registrar's Office during the registration period of the last semester in residence. The student will be required to make this formal application and state the exact name to appear on the diploma. In addition, the student must pay the diploma fee at this last registration. A student who has previously paid a diploma fee, but who failed to graduate at the time expected, must reapply and pay the application fee again. A student must have all financial indebtedness to the University cleared prior to graduation.

## **GENERAL GRADUATE PROGRAM REQUIREMENTS**

### **Master's Degrees**

Master's degrees are conferred upon those who have received the bachelor's degree from UNO or another institution recognized as giving substantially equivalent undergraduate training and who have complied with the regulations of programs as determined by the Graduate School and individual departments in which major work is taken.

### **Course Requirements**

The minimum requirement is 30 semester hours of graduate work, not over six hours of which are allowed for research and the composition of a thesis. In programs not requiring a thesis, the standard course work requirement is 33 hours. Course requirements are determined by departments but must be approved by the Graduate Council. Graduate credit is awarded for courses numbered 4000G-level and above. Graduate credit is not awarded for courses numbered 4000-level and below. As a minimum, a student must present at least 15 semester hours of work (including not over six hours of thesis credit) in courses numbered 6000 or above. Some departments require more than these minimum standards.

### **Time Limit**

Programs for master's degrees must be completed within eight years. A student may request an extension beyond the eight-year limit with approval from the program and the dean of the Graduate School, in consultation with the Graduate Council. Courses over fifteen years old will not normally be considered for an exception. A Request for Extension of the 8 year limit form along with a statement of support from the degree must be submitted to the Graduate School.

### **Admission to Candidacy**

A student will be admitted to candidacy for a master's degree only after having attained unconditional graduate standing, completed at least 12 semester hours of work with a B average or better and a B average or better overall, and received approval of the student's major department for such admission. Formal application must be filed in the Graduate School Office not later than a date announced in the calendar. Acceptance of the application rests with the major professor and the Dean of the Graduate School. The graduate student must adhere to the program outlined on the application for candidacy. Any changes must be approved by the department in question and by the Graduate School in writing.

### **Foreign Language Requirement**

In some departments a reading knowledge of at least one foreign language (classical or modern) is required of all candidates for the master's degree. Students should discuss this matter with their major professor as early as possible.

### **Thesis**

In most departments the preparation of a thesis is an important element in the program leading toward the master's degree. A master's thesis should demonstrate capacity for research, originality of thought, and competency in organization. It must be acceptable in subject matter and exhibit proficiency in composition. Instructions on thesis layout may be obtained at the Office of the Graduate School or on the UNO website (<http://grad.uno.edu>).

Final acceptance of a master's thesis rests with a special committee of three or more members who are nominated by the chair of the department in which major work is taken and are appointed by the Dean of the Graduate School. The major professor is designated chair of this committee. One member ordinarily represents a minor field.

Upon committee approval, the thesis is to be submitted to the Graduate School for approval of the format. The abstract should contain

no more than 150 words. Once the format has been verified, the thesis is to be deposited with the Graduate School in an electronic format. Electronic submission requires conversion of the manuscript to portable document format (PDF). Electronic versions will be housed in the UNO ETD collection and cataloged by the Earl K. Long Library. Should a student require a personal bound copy, he or she should consult one of the several binderies in New Orleans capable of performing this service.

### **Comprehensive and Final Examinations**

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After a candidate's course work is at least substantially complete, the candidate will be required to pass a comprehensive examination. This exam may take the form of a capstone course, portfolio, or other evaluation appropriate to the discipline. Since specific examination requirements vary with individual departments, the candidate should note the catalog entry for procedures involved in preparing for the candidate's particular examination. For non-thesis students, greater weight is ordinarily given to the result of this final examination, and it is likely to be considerably broader in scope than that given to students who complete theses. The Dean of the Graduate School will appoint the examination committee.

Thesis students are required to pass a comprehensive final examination after a thesis is at least substantially complete. The examination may be oral, written, or both oral and written depending upon the requirements of the department concerned. The Dean of the Graduate School will appoint the final examination committee. Ordinarily this committee is composed of the same faculty members who served as a special committee on acceptance of the thesis. The chair of the major department nominates the members. The major professor serves as chair of the committee. Nominations for the examining committee, the thesis title, and a suggested time and place for the examination must be submitted to the Dean of the Graduate School at least two weeks prior to the examination date. The candidate for degree must be physically present at the defense of the manuscript. In the case of extreme and unusual hardship the examining committee may make alternative arrangements. The results of the examination will be submitted to the Graduate School along with student and committee verification of copyright agreement, manuscript access level and Human and Animal Subject committee compliance.

### **Doctor of Philosophy Degree**

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The Doctor of Philosophy (Ph.D.) is the highest degree offered by the University. It is conferred only for work of distinction in which the student displays power of original scholarship and only in recognition of achievement and marked ability.

The degree is not awarded solely on the basis of study, extending over any prescribed period of time. Nothing in the following summary of minimum standards should be construed to imply that the degree will be granted merely in recognition of faithful performance of prescribed work.

The basic requirements are twofold:

1. To be admitted to candidacy an applicant must exhibit unmistakable evidence of penetrating mastery of a rather broad major field, which is ordinarily done in a general examination.
1. A candidate must prove ability to complete a significant program of original research, which is done in a dissertation embodying creative scholarship and by passing a rigorous final examination. The dissertation must add to the sum of existing knowledge, and it must be presented with literary skill.

The degree must be completed within 13 years of admission to the doctoral program, or less, if specified by the individual college or program.

While the degree of Doctor of Philosophy cannot be earned simply by passing courses, the program of work prescribed ordinarily

provides for a minimum of at least 60 semester hours beyond requirements for the baccalaureate degree. Although coursework requirements are concentrated in the student's major field, a certain amount of work is always required in one or two minor fields. All coursework programs require approval of the Dean of the Graduate School. Graduate course work taken at another institution with grades of "A", "B", "P", "S", or equivalent is not subject to the policy on transfer of credit for the master's degree and may be included in the program of study, if approved by the program, the student's advisory committee, and the Dean of the Graduate School.

### **Residence Requirement**

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A doctoral student must earn two consecutive semesters of a minimum of nine hours of residence. The doctoral residence requirement may be met alternatively by three semesters of enrollment at six or more hours, which may be non-consecutive.

The purpose of residency is to provide the doctoral student with significant time for sustained contact with faculty members. An expected outcome is the acquisition of skills of inquiry, an opportunity for research, and the incorporation of professional values into the graduate school experience. Also, it facilitates the creation of a cohesive climate in which inquiry becomes the linking feature of the graduate student experience. In short, residency is expected to be a vehicle for socialization into the shared community of professional life. Students who are in residence for the purpose of the above requirement are expected to devote all of their energies to graduate study under the direct supervision of a major professor and/or advisory committee.

### **Qualifying Examination**

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Early in the student's program of graduate study the major department will evaluate the prospective doctoral candidate for suitability to pursue the doctoral degree. Each graduate program has its own procedure for this evaluation based upon the requirements of its particular discipline. This evaluation may involve written or oral examinations, performance in coursework, or other means.

### **Application for Doctorate**

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A student becomes an applicant for the doctorate by being accepted by a major department. A program of study is required either at the end of the first year of enrollment in the doctoral program or after the Qualifying Examination, if one is required by the program.

### **Language Examinations**

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Each doctoral program has specific requirements for proficiency in a foreign language or for the mastery of certain equivalent research skills. These requirements should be met as early as possible, in no case later than the application for the general examination. Consult with the graduate coordinator of the program for further information.

### **Advisory Committee**

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A student who is found to be capable of working toward the doctorate by the department's qualifying procedure will develop a program of study with the advice and help of a dissertation committee. The department chair or designee appoints the committee after consultation with the student and his/her major professor. The Dean of the Graduate School may serve as an ex-officio member and may appoint additional members. This committee will serve as the examination committee for the general examination and will be appointed by the Dean of the Graduate School. The committee composition will include at least three members from the major department or program.

### **General Examination**

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An applicant becomes eligible for the general examination after satisfying the language requirement and demonstrating adequate

academic and professional aptitudes to the student's advisory committee. The general examination is ordinarily the most rigorous test in the entire program for the doctorate. The examination may be oral, written, or oral and written according to the rules of the major department or program. The content of the examination must be comprehensive enough to demonstrate expert competence over broad segments of the major field and evidence of deep and current knowledge in the student's chosen specialty as well as evidence of progress in research. In most cases the remainder of a student's time will involve concentrated work on the dissertation and preparation for the final examination. A notice of the time and location of the general examination and the composition of the dissertation committee must be sent to the Graduate School Office at least two weeks prior to the proposed examination date.

### **Candidacy**

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Doctoral candidacy involves formal notification to and certification by the Graduate School that a student has demonstrated superior learning and working capacities and that he/she has completed or very nearly completed all course work and other formal degree requirements. Normally students will achieve candidacy at least one year prior to completion of their dissertation. Students who have successfully passed the general examination must file for candidacy with the Graduate School Office. The forms are available from the Graduate School website, (<http://grad.uno.edu/>), and involve a summary of the student's course of study including all hours taken and to be taken for graduate credit, the results of the general examination and a listing of the examination committee. The student becomes a candidate after the Dean of the Graduate School approves his/her General Examination Report.

### **Dissertation**

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Candidates normally concentrate most of their energies in preparing their dissertations. The dissertation must demonstrate a mastery of research techniques, ability to do original and independent research, and skill in formulating conclusions that in some way enlarge upon or modify knowledge in their major field. The original results must be presented in a scholarly and literate form. Research involving human or animal subjects must be approved by the Committees on Human and Animal Subjects and verification of approval must appear in the final version of the dissertation.

The form and style of the dissertation should follow the accepted practices of the major field concerned. Additional information about acceptable dissertation layout is available from the Graduate School (<http://grad.uno.edu>). After dissertation committee approval, the student must turn in the dissertation to the Graduate School by the stated deadline for approval of the format. The abstract may contain no more than 350 words. Once the format has been verified, the dissertation must be deposited with the Graduate School in an electronic format. Electronic submission requires the conversion of the document to portable document format (PDF) Electronic versions are housed in the UNO ETD collection and cataloged by the Earl K. Long Library. Doctoral students must also complete the UMI Author Agreement Form allowing the student's abstract and title to appear in the Dissertation Abstract International Index.

Printed copies of a dissertation may be required by the program. Students should consult the graduate coordinator of the relevant department to verify the format and binding stipulations of this copy.

### **Final Examination**

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The chair of the student's major department must file an application in the College Graduate School for the final examination at least one to two weeks prior to the examination date. The final examination application is submitted on a form available from the Graduate School website (<http://grad.uno.edu>). The final examination committee will

be appointed by the Dean of the Graduate School and will usually consist of the student's dissertation committee to which one or more additions may be made as representatives of the Graduate Faculty.

Although the final examination is traditionally conducted as an oral test which is concerned primarily with the dissertation and related problems, the content may be varied in any way the committee decides and may extend into subject matter related to major and minor fields even though well removed from topics suggested by the dissertation. The candidate for degree must be physically present at the defense of the manuscript. In the case of extreme and unusual hardship the examining committee may make alternative arrangements.

### **Certification**

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In order to pass the final examination, there must be a minimum of three positive votes and no more than one negative vote on a committee with four or more members. The results of the examination, along with the student and committee verification of copyright agreement, manuscript access level, and Human and Animal Subject Committee compliance must be turned in to the Graduate School Office. The candidate will be certified to the Board of Supervisors by the Dean of the Graduate School as having fulfilled all requirements for the degree of Doctor of Philosophy.

## **Graduate Programs**

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### **GRADUATE PROGRAMS IN BUSINESS ADMINISTRATION**

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#### **Accounting**

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##### **Department of Accounting Mission**

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The mission of the Department of Accounting is to provide programs, at both the undergraduate and graduate levels, that prepare our students for careers as professional accountants in public practice, industry, and other areas, and for advancement into graduate programs. We will do this by maintaining high academic standards, superior teaching, quality research, significant service, and the effective use of technology. We recognize the importance of continuous improvement, high ethical standards, and diversity in the educational environment.

##### **Academic Programs**

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The Department of Accounting offers graduate programs in Master of Science in Accounting and Master of Science in Accounting with a Taxation Option. Both the undergraduate and graduate accounting programs are distinguished with separate AACSB International accreditation.

**Master of Science degree in Accounting:** This program is designed to prepare students for careers in various areas of professional accounting. It also helps persons already employed in accounting positions to advance in their careers. The program also serves as a foundation for more advanced studies, such as the Ph.D. degree. For students desiring a greater specialization in accounting information systems auditing, or finance, concentrations in these areas are offered within the Master of Science in Accounting program.

**Master of Science degree in Accounting-Taxation Option:** This program is a specialized Master of Science degree program that is designed to provide a high degree of concentration in the tax area. The taxation option provides in-depth technical and comprehensive study for persons planning careers in taxation accounting or who are already employed in this area and wish to expand their knowledge of the field. The taxation option program also serves as a foundation for more advanced studies, such as the Ph.D. degree.

Both programs may be pursued either full-time or part-time and may be completed by attending evening classes.

### Admission Requirements

Applicants to the Master of Science programs should have a baccalaureate degree from an accredited university and an academic record which clearly indicates a high level of achievement. In addition, the applicant should submit satisfactory scores on the Graduate Management Admission Test (GMAT). General admission requirements are a GMAT score of at least 450 and an undergraduate GPA of at least 2.8. If these requirements are not met, a formula and other factors can be used to determine eligibility. The formula is 200 X GPA plus GMAT score. The GPA may be an overall GPA or a GPA for the last 60 hours of coursework. The formula must total at least 1050 for admission to the program. The minimum GMAT that is acceptable is 400. International students must take the Test of English as a Foreign Language (TOEFL) exam. The composite score must be at least 550 (312 computer test) and 55 listening comprehension (21 computer test). Additional English class work may be required.

### Preparatory Courses

The graduate programs build on the students' technical competence in undergraduate accounting and business courses. To provide a background for successful study at the graduate level, a series of preparatory courses or their equivalents must be completed before enrolling in courses for graduate credit.

The specific undergraduate foundation courses are from the areas of accounting, economics, finance, management, marketing, and statistics\*. These courses do not have to be completed at UNO but a C or better grade is required in each\*. The Master of Science degree in accounting requires 43-48 credit hours of these specific courses while the Master of Science-Taxation option degree requires 36-42 credit hours.

\*See department for specific courses. Except for Accounting 2100, these courses may be taken at the 4400 level to reduce the total number of hours.

### Financial Aid

A limited number of research assistantships are awarded on a competitive basis to full-time graduate students with outstanding academic credentials. Appointments are for a nine-month period and may be renewed for a second year. Graduate assistants normally work 20 hours per week assisting the faculty with their research projects and performing other departmental duties. Irrespective of their legal residency, graduate assistants are eligible for in-state fees. A limited number of loans and scholarships are also available to assist students in financing their education.

### Degree Requirements

The Master of Science programs in accounting require 30 hours of course work. A minimum of 21 hours of these classes must be at the 6000 level. Depending on a particular curriculum, this will permit a student to use up to nine hours of 4000G classes toward his/her degree. Each student must also have at least 15 hours of 6000 level accounting classes. Included in that total there must be at least 12 hours of 6000 level accounting classes other than ACCT 6126, ACCT 6167, and ACCT 6168.

Only classes numbered 4000G and 6000 can be used toward the total credits for the Master of Science programs.

#### Master of Science in Accounting Degree Requirements

Required accounting courses	Cr. Hrs.
ACCT 6125 Studies in Accounting Theory	3
ACCT 6133 Studies in Managerial Accounting	3
ACCT 6185 Strategic Business Planning	3
Approved accounting electives*	12

### Approved electives

Accounting or other business administration courses	6
Free elective	3
<b>TOTAL CREDITS REQUIRED</b>	<b>30</b>

\*See the department for specific courses and see "degree requirements" above.

#### Master of Science in Accounting—Accounting Information Systems Concentration

Required courses	Cr. Hrs.
ACCT 4142G IT Auditing	3
ACCT 6125 Studies in Accounting Theory	3
ACCT 6133 Studies in Managerial Accounting	3
ACCT 6143 Advanced Accounting Information Systems	3
ACCT 6185 Strategic Business Planning	3
MANG 6710 Management of Technology and Innovation	
OR	
MANG 6730 Business Information Systems Analysis and Design	3
Approved accounting electives*	6
Approved Accounting or other Business Administration Courses	6
<b>TOTAL CREDITS REQUIRED</b>	<b>30</b>

\* See department for specific courses and see "degree requirements" above.

#### Master of Science in Accounting — Auditing Concentration

Required courses	Cr. Hrs.
ACCT 4162G Advanced Auditing	3
ACCT 6167 Internal Auditing Concepts	3
ACCT 6125 Studies in Accounting Theory	3
ACCT 6133 Studies in Managerial Accounting	3
ACCT 6169 Fraud Examination	3
ACCT 6185 Strategic Business Planning	3
ACCT 6163 Seminar in Auditing	
OR	
ACCT 6168 Operational Auditing	3
Approved accounting course	
Approved elective*	3
Non-Accounting course	3
Accounting or other business administration course	3
<b>TOTAL CREDITS REQUIRED</b>	<b>30</b>

\* See department for specific courses and see "degree requirements" above.

#### Master of Science in Accounting — Finance Concentration

Required courses	Cr. Hrs.
ACCT 6125 Studies in Accounting Theory	3
ACCT 6133 Studies in Managerial Accounting	3
FIN 6300 Financial Administration	3
FIN 6302 Investments	3
ACCT 6185 Strategic Business Planning	3
Approved accounting electives*	12
Approved finance course**	3
<b>TOTAL CREDITS REQUIRED</b>	<b>30</b>

\*See the department for specific courses.

\*\*To be selected from any 4000G or 6000 level Finance course except  
 An internet course  
 A thesis course, or  
 A directed study course.

#### Master of Science in Accounting — Taxation Option Degree Requirements

Required accounting courses	Cr. Hrs.
ACCT 6125 Studies in Accounting Theory	3
ACCT 6133 Studies in Managerial Accounting	3

Required taxation courses	Cr. Hrs.
ACCT 4154G Estate and Gift Taxation	3
ACCT 6151 Federal Tax Practice, Procedure, and Report Writing	3
ACCT 6153 Taxation of Corporations and Shareholders	3
ACCT 6156 Advanced Taxation of Partners and Partnerships and Professional Corporations	3
ACCT 6185 Strategic Business Planning	3
Approved tax elective*	3
Approved Accounting or Business Administration courses	6
<b>TOTAL CREDITS REQUIRED</b>	<b>30</b>

\*See the department for specific courses and see "degree requirements" above.

## Arts Administration

The Master of Arts in Arts Administration is interdisciplinary in nature, involving the Department of Drama and Communications, Department of Fine Arts, Department of Music, and the College of Business Administration. It is built on graduate courses offered by those departments and on specialized courses in Arts Administration. The Arts Administration faculty consists of core faculty from the areas involved and other faculty whose interests are relevant to the program.

The Master of Arts in Arts Administration is designed to prepare students to serve as administrators and managers in all types of arts institutions, among them galleries, theatres, performing arts centers, and community arts centers. Included in the curriculum are courses in business and the arts, as well as an internship designed to give students practical experience in the field.

### Admission

A student must be accepted by both the Graduate School and the Coordinating Committee for Arts Administration. To be admitted to graduate studies in Arts Administration, a student must have:

1. bachelor's degree from an accredited college or university;
2. a composite score verbal and quantitative of 1000 on the Graduate Record Examination or a minimum of 400 on the Graduate Management Admission Test (depending upon the student's area of undergraduate study);
3. a grade-point average of 2.5 for undergraduate work and 3.0 for post-baccalaureate work, on a 4-point scale; and
4. satisfactory academic standing at the last college or university attended.

In addition to the above, experience in business and/or the arts is desirable, but not required.

### Financial Aid

Graduate assistantships are available to a limited number of qualified applicants each year.

## Master of Arts in Arts Administration Degree Requirements

**Foundation Courses:** Students will be required to present credit for the following foundation courses (or equivalents): Business Administration 3010, Drama and Communications 2770, Finance 3300, and Management 3401. (Note: Prerequisites for the Finance and Management courses are Accounting 2100 and Economics 2203, 2204, or 2200.)

**Graduate Requirements:** Students must complete a minimum of 36 hours, including: six hours of approved courses in the arts area of specialization (art history, drama and communications, or music); an overview course in each of the two nonspecialization arts areas (see Fine Arts 6010, Film, Theatre and Communication Arts 6010, Music 6010); and Arts Administration 6501, 6502, 6503, 6990. Students are required to complete six hours of approved arts elective, six hours of approved business electives, and three hours of general electives.

## Master of Business Administration

The MBA degree is a professional degree. The program is designed to prepare students for superior administrative positions in both the private and public sectors. The program is accredited by the Association to Advance Collegiate Schools of Business International (AACSB).

Students are provided a broad preparation in business administration while being allowed a certain amount of concentration in specific business areas. Attention is given to lasting principles instead of specific techniques which may be subject to frequent change. Emphasis is placed on the development of problem-solving and decision-making abilities.

The curriculum integrates communication skills with social and ethical perspectives for business decision making and adds a diverse, global perspective through the extensive use of case analysis. The functional business discipline skills are integrated in a "capstone" course through the use of the Business Simulation Game and case studies.

The program is designed to satisfy the needs of students with or without undergraduate degrees in business administration. The preparation, foundation core courses are intended to provide the background needed by students with degrees in areas other than business. These foundation courses include: Accounting 4400, Business Administration 4400, Economics 4400, Finance 4400, Management 4400, management 4401 or 2790, Marketing 4400, and Quantitative Methods 4400, or their equivalents.

Students who have been awarded a bachelor's degree in business administration from an AACSB-accredited program within eight years of beginning their MBA studies at the University of New Orleans will have satisfied these foundation core requirements. Students who have graduated with a bachelor's degree in business more than eight years prior to beginning the MBA program at the University of New Orleans may be able to waive some or all of the foundation courses based upon validation of currency of knowledge in those specific areas. Additionally, students with a bachelor's degree in a field other than business and who have had coursework required in the foundation courses more than eight years before beginning the MBA program at the University of New Orleans may also be able to waive some or all of the foundation courses based upon validation of currency of knowledge in those specific areas.

### Admission Requirements

Admission to the traditional MBA program is at the discretion of the College of Business Administration's Committee on Graduate Admissions and the Dean of the Graduate School. Applicants are normally admitted if they have a baccalaureate degree from an accredited college or university, with a minimum grade-point average of 2.75 (on a 4.0 grading system) or above and a minimum GMAT score of 450 and a total of at least 1050 points based on the following formula:

$$(\text{Overall undergraduate GPA} \times 200) + \text{the GMAT score} = 1050$$

Or

$$(\text{Upper division undergraduate GPA} \times 200) + \text{the GMAT score} = 1100$$

The upper division grade-point average refers to a student's last 60 semester hours. In addition, applicants must have maintained at least a 3.0 grade-point average (4.0 system) for all graduate work previously taken. Applicants whose native language is not English must achieve a minimum score of 550 (written), 213 (computerized), or 79-80 (iBT) on the Test of English as a Foreign Language (TOEFL). The TOEFL requirement may be waived if the applicant has earned a degree in an English-speaking institution. Students scoring below 650 on the TOEFL will be required to take an English Second Language (ESL) evaluation to determine if English courses are required.

## Master of Business Administration Degree Requirements

Courses	Cr. Hrs.
ACCT 6130 <sup>1</sup> Advanced Accounting Analysis for Decision Making	3
ECON 6200 Managerial Economics	3
FIN 6300 Financial Administration	3
QMBE 6780 Operations Research	
OR	
BA 6780 Survey of Decision Making Tools	3
MANG 6401 Seminar in Organizational Behavior	3
MANG 6476 Operations Management	3
MKT 6503 Strategic Marketing Management	3
MANG 6480 Seminar in Business Policies	3
Approved Electives or Concentration Electives <sup>2</sup>	9
TOTAL CREDITS REQUIRED	33 <sup>3,4</sup>

<sup>1</sup>Candidates with an undergraduate degree in accounting or who have completed a substantial number of accounting courses will be required to substitute a three-hour accounting course at the 6000 level.

<sup>2</sup>Must be approved by the coordinator of the MBA program.

<sup>3</sup>A grade of C or higher is necessary for any course to be accepted for credit. However, a C grade is considered to be below the standard normally expected of a graduate student. A grade of C or better is required for all foundation courses.

<sup>4</sup>As a minimum, a student must present at least 33 semester hours of work in courses numbered 6000 or above (exception: one approved, 4000 graduate-level course may be substituted). A student must have a cumulative grade point average of at least 3.0 on all course work taken to fulfill Graduate Curriculum requirements.

## Master of Business Administration Concentrations

Concentrations allow students to focus their studies on a particular area of business administration. The MBA Program offers concentrations in the following areas: Finance, Health Care Management, Human Resource Management, Hotel, Restaurant and Tourism Administration, International Business, Management Information Systems, Marketing, and Technology Management. Each concentration consists of nine hours in selected courses (with the exception of Technology Management which requires 18 credit hours in specific courses), thus fulfilling the elective requirements in the core curriculum. Specific courses must be approved by the program director. An executive track concentration is available as described below.

## Master of Business Administration—Executive Track

For experienced managers, professionals, and entrepreneurs who are working full time, the Executive track of the MBA is a lock-step program designed to allow rapid completion of the MBA degree with minimal disruption of work responsibilities. Classes are held primarily on Saturdays and Sundays of alternating weeks. Additional fees apply. Classes may be taken only by students admitted to the Executive track of the MBA program. Admission to the executive track of the MBA program is separate from admission to the MBA program. Preparatory course material is integrated into the program through the use of special topic sessions.

Admission to the Executive track of the MBA Program is at the discretion of the College of Business Administration's Committee on Executive track MBA graduate admissions. Applicants are evaluated based on: (1) the length and quality of their professional work experience; and (2) the attainment of, and grade point average in, a baccalaureate degree from an accredited college or university. Applicants to the program may be required to take the Graduate Management Applications Test (GMAT). English language requirements described above must also be fulfilled.

## Financial Aid

A limited number of assistantships are available to qualified applicants. These assistantships involve half-time work assignments (20 hours per week) in the various academic departments, centers and functional areas of the College of Business Administration. Requests for application forms or for additional information should be directed to [http://business.uno.edu/mba/contact/ga\\_form.html](http://business.uno.edu/mba/contact/ga_form.html).

## Economics and Finance

### Doctor of Philosophy in Financial Economics

The Department of Economics and Finance offers a Doctor of Philosophy degree in Financial Economics with specializations in International Financial Economics, Investments, Corporate Finance, Monetary Theory and Financial Institutions, and an interdisciplinary field. The curriculum is structured to promote competence both in theory and applications, in finance and economics.

### Admission Requirements

All students enrolling in the program must have a bachelor's degree from an accredited college or university and, at a minimum, their undergraduate training should include principles of economics, intermediate microeconomic and macroeconomic theory, financial management, one year of statistics, and one semester of calculus. Admission decisions will be based primarily on undergraduate grade point average (GPA), Graduate Record Examination (GRE) or Graduate Management Admissions Test (GMAT) scores, and letters of recommendation. Preferred levels of performance will be a 3.0 GPA and 1550 (combined scores for verbal, quantitative, and analytical) combined GRE or 550 GMAT score. These levels will be viewed as general guidelines since particular strength in one set of credentials may be viewed as sufficient to offset a modest deficiency elsewhere. International students must have a minimum of 600 on the TOEFL Exam.

### Curriculum

The doctoral program in financial economics is divided into three stages: core preparation, advanced specialization, and dissertation. All graduate students must have approval of the graduate coordinator for the courses that they take.

Students may be allowed to start taking graduate courses before completing certain foundation courses. The intermediate economics courses may be taken concurrently with the graduate theory courses. Principles of Financial Management (Finance 3300), calculus, and statistics are prerequisites to all graduate courses in the program.

Prospective candidates for the Ph.D. degree in financial economics should be advised that mathematical modeling is used heavily in the field. Indeed, it is virtually impossible to read any current major journal (much less contribute one's own research to them) without considerable training in modeling methods. Those entering doctoral study without command of calculus will be judged deficient. More than one semester in calculus is recommended.

The successful completion of the Ph.D. program is carried out in three stages: core courses that culminate in a qualifying exam, two specialized fields with a corresponding general exam, and a dissertation and its' oral defense. The Ph.D. candidate must demonstrate proficiency in mathematics or computer programming in a manner approved by the Graduate Coordinator.

## Master of Science in Health Care Management

The master of Health Care Management program is designed to prepare health care professionals to survive and prosper in the twenty-first century. The curriculum provides students with a unique blend of knowledge that bridges the world of health care and the world of finance, marketing, accounting, and management. The objective of this

advanced education is to enable graduates to manage and supervise administrative areas in both public and private health care settings more efficiently. This degree will be administered and awarded by the UNO College of Business Administration. This interdisciplinary program involves faculty from the College of Business Administration and the Louisiana State University Health Sciences Center in New Orleans and adjunct lecturers from relevant health care agencies and organizations. The program consists of 33 credit hours or 11 courses. Some courses will be taken at UNO and some at LSU Health Sciences Center. There is no thesis. Admissions Requirements: baccalaureate degree from an accredited college or university; GPA of at least 3.0 or better from undergraduate work; satisfactory academic standing at the last university or college attended, and satisfactory admission tests scores from either the GRE (700 or better) or GMAT (400 or better).

### Master of Science in Health Care Management Degree Requirements

Courses	Cr. Hrs.
ACCT 6131 <sup>1</sup> Accounting in Health Care Settings	3
ECON 4250G Health Care Economics	3
BA 6010 Health Care Management	
OR	
HPSM 6268 Health Services Administration and Management	3
EPID 6210 Principles of Epidemiology	
OR	
EDHS 4111G Epidemiological Principals in Health Promotion	3
MKT 4536G Health Care Marketing	3
BA 6012 Culture and Behavior in Health Care Settings	3
FIN 6350 Health Care Financial Management	3
BA 6097 or HPSM 6258 Health Law and Ethics	3
And two approved electives	6
BA 6013 Strategic Management of Health Care Organizations (Capstone)	3
<b>TOTAL CREDITS REQUIRED</b>	<b>33</b>

<sup>1</sup>BA 6014 (prerequisite) Business for Health Care Note: this course is required for non-business students and if taken may be used as an approved elective.

### Master of Science in Health Care Management — Executive Track

For experienced managers, professionals, and entrepreneurs who are working full time, the Executive track of the MS in Health Care Management (MSHCM) degree is a lock-step program designed to allow rapid completion of the MSHCM degree with minimal disruption of work responsibilities. In this 15-month program, classes are held primarily on Saturdays and Sundays of alternating weeks. Additional fees apply. Classes may be taken only by students admitted to the Executive track of the MS in HCM program. Admission to the Executive track of the MSHCM program is separate from admission to the HCM program.

Admission to the Executive track of the Master of Science in Health Care Management Program is at the discretion of the College of Business Administration's Committee on Executive MS-HCM graduate admissions. Applicants to the program may be required to take the Graduate Management Applications Test (GMAT) or the Graduate Record Examination (GRE). UNO Graduate School English language requirements must also be fulfilled.

Applicants are evaluated based on:

1. the length and quality of their business experience;
2. attainment of, and grade point in, a baccalaureate degree from an accredited college or university.

## Master of Science in Hospitality and Tourism Management

The Master of Science in Hospitality and Tourism Management program is an advanced degree program to better prepare future leaders in the hospitality and tourism industry. It is designed to enhance students' knowledge of the industries that operate under the rubric of global tourism; widen their horizons in regard to unresolved issues in the field; and further develop their analytical abilities and communication skills.

The program prepares students for professional careers in both the private and public sectors of global hospitality and tourism and it also serves as a foundation for more advanced studies.

Students are provided a broad preparation in the important operational aspects of the organizations that comprise the hospitality and tourism industries. Emphasis is placed on the development of problem solving and decision-making abilities as well as the acquisition of basic research skills.

The program is designed to satisfy the needs of students with undergraduate degrees in any field who want to be better prepared for careers in hospitality and tourism.

### Admission Requirements

- a baccalaureate degree or equivalent from an accredited university, and
- a minimum undergraduate grade-point average of 2.5, and
- a score of 400 or above on the Graduate Management Admissions Test (GMAT)
- a score of 800 or above on the GRE (Sum of Verbal and Quantitative)

In addition, applicants must have maintained at least a 3.0 GPA (4.0 system) for all graduate work previously taken. Applicants whose native language is not English must achieve a minimum score of 550 (written test) or 213 (computer test) on the Test of English as a Foreign Language (TOEFL), and a minimum score of 50 (written or computer test) on Section 1 of the TOEFL. However, the TOEFL requirement may be waived if the applicant has earned a degree in an English-speaking institution. Students scoring below 650 on the TOEFL will be required to complete an English Second Language (ESL) evaluation to determine if any additional English courses are required.

### Master of Science in Hospitality and Tourism Management Degree Requirements

Course	Cr. Hrs.
HRT 6001 Survey of the Hospitality and Tourism Industry*	3
HRT 6102 Technology of Hospitality and Tourism Management	3
HRT 6200 Hospitality and Tourism Operations Analysis	3
HRT 6202 Hospitality and Tourism Research Methods	3
HRT 6203 Marketing Applications for the Hospitality and Tourism Industry	3
HRT 6204 Hospitality and Tourism Internship	3
HRT 6205 Change Management for Hospitality and Tourism	3
HRT 6207 Work Experience in Hospitality and Tourism	0
HRT 6300 Hospitality and Tourism Finance and Revenue Management	3
HRT 6301 Hospitality and Tourism Industry Strategic Management**	3

### Required credits for all students

Electives—Non-Thesis (one of the following)	27
HRT 6491 Independent Study in Hospitality and Tourism Management	3
HRT 6250 Tourism Destination Development	3
HRT 6495 Special Topics in Hospitality and Tourism	3
<b>Total credits required—Non Thesis Option</b>	<b>30</b>

### Additional Degree Requirements—Thesis Option

HRT 7000 Thesis Research (6 credits)***	6
Master of Science Thesis Option must take two additional Research Methods/Statistics courses (for a total of 6 additional credits). Students must have approval from the HRT Graduate coordinator prior to registering for the appropriate courses.	6
Courses may be selected from:	
EDFR 6705 Research Design	3
EDFR 6710 Descriptive Statistics	3
EDFR 6720 Applied Regression	3
PSYC 6311 Advanced Statistics I	3
PSYC 6312 Advanced Statistics II	3
<b>TOTAL CREDITS REQUIRED – Thesis option</b>	<b>39</b>

\*Students who have an undergraduate degree in Hotel, Restaurant and Tourism Administration will be allowed the option of substituting a three-hour MBA elective or Hotel, Restaurant and Tourism 6250 or 6495 in the place of Hotel, Restaurant and Tourism 6001.

\*\*HRT 6301 must be taken near the end of the course of study.

\*\*\*HRT 7000 must be taken over the last two semesters of study (3 credits per semester) and with approval of the department.

#### Notes:

1. Students without Hospitality and Tourism or Business related undergraduate or graduate degrees or without business experience may be required to take 9 credit hours of M.S. foundation courses. These are FIN 4400 Principles of Financial Management; MKT 4400 Principles of Marketing; and ACCT 4400 Survey of Financial Accounting.
2. Students choosing the non-thesis option will need a minimum of 30 credit hours to complete the course requirements for the program.
3. Students choosing the thesis option are required to take Hotel, Restaurant and Tourism Administration 7000 (six credit hours) and two additional research courses for a total of 39 credit hours.

The Master of Science program consists of a minimum of ten courses and a total of 30 credit hours. The thesis option will require an additional three credit hours.

### Master of Science in Engineering Management

The College of Business Administration cooperates with the College of Engineering in offering an M.S. degree in Engineering Management. This program makes use of the expertise and resources of the faculty of both colleges. A full description of this graduate program may be found in the Graduate Programs in Engineering section of this catalog.

## GRADUATE PROGRAMS IN EDUCATION AND HUMAN DEVELOPMENT

### Curriculum and Instruction

Two master's degree options and a doctorate degree are offered in Curriculum and Instruction. The Master of Arts in Teaching (MAT) degree is designed to offer candidates with a bachelor's degree outside the field of education an opportunity to address the requirements of an initial level teaching certificate within a master's degree program. The Master of Education (M.Ed.) degree is designed to offer candidates who already hold teacher certification an opportunity to address one or more advanced preparation objectives including the requirements of an add-on certification option, advanced preparation in their existing certification area, coursework addressing an advanced skill set, or additional training in one or more content areas. The Doctor of Philosophy (Ph.D.) degree provides advanced preparation for professionals. The doctoral program is designed to develop an understanding of research and the interaction of theory and practice in culturally diverse, metropolitan, educational settings.

### Requirements for the Master of Arts (MAT) Degree

The Masters of Arts in Teaching in Curriculum and Instruction offers certification in early childhood (Pre-Kindergarten – grade 3), elementary (grades 1-5), middle grades (grades 4-8) in English, math, science, and social studies, secondary (grades 6-12) in English, math, social studies, biology, chemistry, earth science, general science, and physics.

The Master of Arts in Teaching program requires 36-39 graduate credit hours in the following areas: learner and the learning environment, teaching methodology, literacy, research, and internship/student teaching. Details on the program of study for each certification option may be found at the college website at <http://coehd.uno.edu/Programs/>.

**Admission:** In addition to the admission requirements established by the Graduate School which include an overall grade point average of 2.5 and a satisfactory score on the Graduate Record Examination (GRE), candidates must achieve passing scores on PRAXIS I as well as the relevant PRAXIS II subject assessment. PRAXIS I is not required for candidates with an ACT composite score of 22, an SAT (verbal and math) score of 1030, or who already have a Masters degree. The College office must have official scores. All candidates must submit official transcripts from each college and university attended. One transcript with all transfer credits is not acceptable. All initial advising for this program occurs via the College of Education and Human Development Academic Counselors. Following initial advising, candidates are advised by a Faculty Advisor in the Department of Curriculum and Instruction for the duration of their program of study.

### Field Experience Requirements

Throughout the program, candidates complete field activities in school and classroom settings. Field work is supported in two ways: through assigned work associated with individual classes and within a student teaching (9 credits) or internship (6 credits) experience taken at the end of the program of study. Field experience opportunities support candidates in meeting all national and state standards associated with their certification area. The program includes specific requirements for the number and type of field experience hours that must be completed as well as for the development of an electronic portfolio that aligns artifacts resulting from field work with specific professional standards. More information on field experience requirements may be found at the college website at <http://coehd.uno.edu/Programs/>.

### Requirements for Completing Program

All certification programs in the College of Education and Human Development are performance-based. Candidates develop a professional portfolio to document the knowledge, skills and dispositions associated with effective teaching. Completion of the program of study requires successful performance in coursework, field experience, and candidate assessments specific to the area of study. In addition to assessments associated with specific courses in the program, candidates must pass a final assessment to complete the program and be recommended for a teaching certificate. More information on candidate assessment and program progression requirements may be found at the college website at <http://coehd.uno.edu/Programs/>.

### Louisiana Teacher Certification

Candidates who successfully complete all program requirements are recommended to the Louisiana Department of Education for a teaching certificate. All conditions listed above under "Louisiana Teacher Certification" must be satisfied. Candidates enrolled in this program while teaching may be eligible for a Practitioner License upon recommendation by the hiring school district.

## Requirements for the Master of Education (M.Ed.) Degree

### Admission

The prospective master's student must meet the admission requirements established by the Graduate School. In addition, applicants must hold a standard teaching certificate, complete the General Test of the Graduate Record Examination and be acceptable to the major department.

All required records of the applicant must be on file in the office of the Graduate Program Coordinator of the Department of Curriculum and Instruction, before any action will be taken on the application.

Unconditional admission to a master's program in Education requires an undergraduate grade point average of at least 2.50 and a minimum score on the Graduate Record Examination; as determined by the program. For those students who do not meet the standards for unconditional admission, probationary admission may be possible. For further information concerning probationary admission to the graduate Education programs, please contact the College of Education and Human Development.

### Programs of Study

The program of study in Curriculum and Instruction must include a minimum of 21 semester hours from professional education, including research methods and a minor or related fields.

The minimum requirement in curriculum and instruction is 36 semester hours, including research methods, and a minimum of six semester hours in a minor or related fields outside the major department. Students entering the department for secondary education master's programs in English, science, social studies, and math are required to complete a minimum of nine semester hours from courses in cognate areas. Within the area of concentration, the student may select from a wide range of programs which are concerned with teaching or related instructional activities. These programs include curriculum, instruction, evaluation and appropriate specializations.

Students in a master's program in the Department of Curriculum and Instruction cannot count more than six hours of graduate coursework with a grade lower than a B toward their degree program. In addition, any master's student receiving six hours of graduate coursework with a grade lower than a B in the Department of Curriculum and Instruction shall be dropped from the department's program.

Each candidate is required to complete a minimum of 40 clock hours of field work associated with assignments in courses within the program of study. Candidates must develop an electronic portfolio aligned with professional standards to demonstrate their effectiveness as a teacher. Each candidate must also successfully complete performance assessments including a portfolio review and a written and/or oral comprehensive examination. The examination will concentrate on the application of educational practice and theory with emphasis on the major area of concentration, but may include the minor or related fields. Typically, the comprehensive examination is taken during the last semester of graduate study. Two failures of the examination necessitate dismissal from the master's program.

### Requirements for the Doctoral Degree

The Doctor of Philosophy (Ph.D.) degree is offered in Curriculum and Instruction in three major concentrations: General Curriculum, Literacy Studies and Language Education, and Teacher Development. The doctoral degree is conferred only for work of distinction in which the student displays power of original scholarship and only in recognition of achievement and marked ability. The standards of the quality for Doctor of Philosophy are high.

The general regulations and procedures governing programs leading to the Doctor of Philosophy, as explained elsewhere in this catalog, will be followed. Specific application of these regulations and

procedures to doctoral programs in Curriculum and Instruction are listed below.

### Admission

In addition to the general requirements outlined in this catalog, the department has established these additional requirements for doctoral candidates:

1. Attainment of an acceptable score on the verbal and quantitative portions of the Graduate Record Examination as determined by the program.
2. Provide documents which indicate potential for completing a doctoral program.
3. Demonstration of satisfactory competence in written and oral communication.
4. Presentation of at least three letters of reference.
5. Favorable screening for a doctor's degree program by a graduate faculty committee of Curriculum and Instruction.

Screening takes place in the spring semester for admission in the fall. All paperwork should be on file in the office of the graduate coordinator of the Department of Curriculum and Instruction on or before the last working day of February. The student takes at least nine graduate hours in curriculum and instruction, including Curriculum and Instruction 6900, and then writes the Qualifying Examination. Passing the Qualifying Examination is required for full admission to the program.

### Course Requirements

While the degree of Doctor of Philosophy cannot be earned simply by passing courses, the program of study requires a minimum of 96 semester hours beyond the requirements for the baccalaureate degree, including 18 hours of research tools. A minimum of 33 semester hours is required in curriculum and instruction. At least 33 semester hours must be completed after passing the qualifying examination, and at least 18 of these hours must be in curriculum and instruction. A minimum of 45 semester hours must be completed by students who transfer from another accredited university. The student must complete an 18 semester hour minor in a single area of concentration outside the major area of concentration.

Students in a doctoral program in the Department of Curriculum and Instruction cannot count more than six hours of graduate coursework with a grade lower than a B toward their doctoral degree. In addition, any doctoral student receiving six hours of graduate coursework with a grade lower than a B in the department FOLLOWING COMPLETION OF THE QUALIFYING EXAMINATION shall be dropped from the department's doctoral program.

### Research Tools

Ph.D. candidates must demonstrate competence in research methodologies through taking 18 credit hours of research courses. Ph.D. candidates may substitute a reading proficiency in one foreign language for one of the research courses, if approved by the Department of Curriculum and Instruction.

### General Examinations

An applicant becomes eligible for the general examination demonstrating adequate academic and professional aptitude to the advisory committee. The general examination is ordinarily the most comprehensive evaluation in the entire doctoral program. The examination will be written and oral. The written examination covers both the major and minor fields. The oral examination concentrates on educational research, theory, and practice with emphasis on the major field. An applicant becomes eligible for candidacy after passing the general examination. However, two failures of the general examination will necessitate a dismissal from the doctoral program.

## Time Limit

There will be a time limit of five years for completion of coursework from qualifying examination to general examination and a five year limit from completion of general examination to completion of the doctoral dissertation. Extension of time limits may be requested by petitioning the department which houses the Department of Curriculum and Instruction as long as the request does not exceed the Graduate School's stated provisions.

Further information is contained in the department's doctoral handbook.

## Residence Requirement

All doctoral students are required to adhere to the residency policy established by the Graduate School.

## Financial Aid

Several types of fellowships, scholarships, and assistantships are available to a limited number of qualified applicants. Those receiving such grants will normally carry a full load of graduate courses and will devote time to instructional or research duties with graduate faculty members.

## Counselor Education

### Requirements for the Master of Education (M.Ed.) Degree

Two concentrations are available in the master's degree programs in Counselor Education: Community Counseling, and School Counseling. The Community Counseling concentration prepares graduates to serve as counselors in a variety of community mental health settings including counseling agencies, business and industry, employee assistance programs, substance abuse treatment programs, hospitals, rehabilitation facilities, court systems, and other settings in which counseling or other mental health services are offered. The School Counseling concentration prepares graduates to serve as counselors in public, parochial, and private schools (pre-K through 12th grade).

### Admission

Prospective master's degree students must meet the admission requirements established by the Graduate School. In addition, applicants must present scores from the General Test of the Graduate Record Examination (GRE) that were earned in the last five years. GRE scores are not required for applicants who hold a graduate degree. Master's degree applicants are considered based on criteria developed and published by the faculty. To be considered for admission to the program without probation, an applicant must have an undergraduate grade-point average of at least 2.50. Presentation of the minimum undergraduate grade-point average does not guarantee admission. Admission decisions are based on all criteria considered in relationship to the need of the program and number of students who can be reasonably accommodated. Applicants who present undergraduate grade-point averages that are lower than those listed above may be considered for admission on probation.

### Program of Study

Students in Counselor Education complete the Master of Education (M.Ed.) degree program in Counselor Education.

The minimum total semester credits required for the M.Ed. program is 60. Master's degree programs are accredited by the Council for the Accreditation of Counselor Education and Related Educational Programs (CACREP). Programs include 36 counseling core credits, six counseling emphasis area credits, six counseling elective credits, three credits in research, and nine credits in field work.

### Retention Standards

Students admitted to the master's degree program in Counselor

Education must complete each of the following courses with a grade of B or better before they may enroll in the next course for which that course is a prerequisite: Counselor Education 6430, 6440, and 6896. Master's degree students will be dismissed for any of the following academic reasons: they accumulate six or more hours of grades lower than B in graduate coursework required in their programs of study; their cumulative UNO graduate grade-point average for two consecutive semesters (fall and spring or spring and fall) is below 3.0; or they fail the comprehensive examination twice.

### Transfer of Credit

A student, with approval from the major professor and the department, may transfer six semester credits of graduate credit in which grades of B or better were earned that were taken in residence at another university outside the LSU System or as many as 12 semester credits of graduate credit taken within the LSU System. These transfer hours may be included in the program of study. Transfer credits, as well as all credits earned toward the degree, must have been taken within the eight years prior to graduation. Credit for individual courses taken more than eight years before the completion of the degree, may be validated by the student's major professor upon demonstration that the student has current knowledge covered in the course.

### Comprehensive Examination

Master's degree students must pass a comprehensive examination, which must be taken near the end of the student's degree program. The examination covers all of the core areas of the student's field of study.

### Requirements for the Doctoral Degree

The Counselor Education Ph.D. program prepares counselors for leadership roles in the counseling profession. Research competency, advanced counseling skills, and practice in the clinical supervision of other counselors are emphasized in the program. Graduates generally choose careers as university faculty members (counselor educators), administrators of counseling programs, private practitioners, and researchers.

### Admission

Prospective Ph.D. degree students must meet the admission requirements established by the Graduate School. In addition, applicants must complete the General Test of the Graduate Record Examination. Ph.D. degree applicants are considered based on criteria developed and published by the faculty. To be considered for admission to the program without probation, an applicant must have a graduate grade-point average of at least 3.50. Presentation of the minimum graduate grade-point average does not guarantee admission. Admission decisions are based on all criteria considered in relationship to the needs of the program and number of students who can be reasonably accommodated. Applicants who present graduate grade-point averages that are lower than those listed above may be considered for admission on probation. In addition to the UNO Graduate Application, applicants to the Ph.D. program in Counselor Education must also submit the following: transcripts from all post-secondary schools attended; Graduate Record Examination scores from the General Test taken within the last five years; a personal statement; a Counselor Education application for doctoral studies; a current resume; and three letters of reference. Finalists for admission who are invited must also interview with the program admissions committee. The interview process includes completion of a writing sample and a videotaped counseling interview.

### Programs of Study

The Ph.D. program goes well beyond the accumulation of graduate course credits. It includes coursework, supervised field experiences, completion of examinations, a research project, and a dissertation. The

degree program includes a minimum of 114 graduate credits beyond the bachelor's degree. There are 48 credits of entry-level core counseling courses (includes three credits in research), 12 credits of counseling courses in an area of concentration, 39 credits of doctoral-level core counseling courses (includes 12 credits in research), and 15 additional credits in research courses. Because of the number of credits completed in research (30 credits total), this area serves as the minor for doctoral students. The doctoral program includes a 100 hour practicum and a 600 hour internship. Concentration areas in counseling in the doctoral program are focused in a particular area of counseling such as college counseling, community counseling, or school counseling. A Program of Study must be completed at the end of the student's first year of enrollment in the doctoral program.

### **Research Tools**

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Ph.D. students must complete a minimum of 30 credits in research, which includes coursework and dissertation research. Students develop competency in both quantitative and qualitative research methods. They choose one primary method for their dissertation and complete advanced research courses in that area.

### **Retention Standards**

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Ph.D. degree students will be dismissed for any of the following academic reasons: they accumulate six or more hours of grades lower than B in graduate coursework required in their programs of study; their cumulative UNO graduate grade-point average for two consecutive semesters (fall and spring or spring and fall) is below 3.0; they fail the general or final (dissertation defense) examination twice.

### **Residency**

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A doctoral student must earn two consecutive semesters of a minimum of nine hours of residence. The doctoral residence requirement may be met alternatively by three semesters of enrollment at six or more hours, which may be non-consecutive.

Students who are in residence for the purpose of the above requirement are expected to devote all of their energies to graduate study under the direct supervision of a major professor and/or advisory committee. Transfer credit from other institutions may be accepted in partial fulfillment of the residency requirement if approved by the department and the Dean of the Graduate School.

### **Transfer of Credit**

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A student, with approval from the major professor and the department, may transfer all credits earned toward one or more master's degrees completed at other universities and up to 15 semester hours earned outside of a master's degree program. Only graduate credits in which grades of B were earned that were taken in residence at another university may be transferred. These transfer hours may be included in the program of study.

### **Continuous Enrollment**

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Doctoral students, after being admitted to the Ph.D. program, must enroll in graduate courses each fall and spring until being awarded the degree. A leave of absence must be formally requested from the faculty prior to any semester in which this requirement is not met. Students will be dismissed if they fail to meet this continuous enrollment requirement.

### **General Examination**

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Students must successfully complete a general examination to continue in the Ph.D. program. Students may take the general examination when they have completed most of their coursework, as defined by the faculty.

### **Time Limit**

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Ph.D. students must complete their degree within a 13-year period of admission to the program.

## **Educational Leadership**

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### **Requirements for the Master of Education (M.Ed.) Degree**

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The master's program in Educational Leadership prepares graduates for leadership positions in K-12 school settings. For the K-12 school setting, courses are offered for the "Teacher Leader Endorsement" and "Educational Leader Level 1". Successful completion of EDAD 6800 and EDAD 6805 (6 graduate hours) allows a teacher candidate to apply to the Louisiana State Department of Education for the "Teacher Leader Endorsement" to be added to their teaching certificate. After the first 6 hours, teacher candidates are screened for admission into the 36 credit hour program of study which results in a Master's Degree in Educational Leadership. Completers of the Master's Degree Program qualify to apply for certificate/license as an "Educational Leader Level 1".

The Educational Leader Level 1 is an entry-level license for individuals seeking to qualify for school and/or district leadership positions (e.g., assistant principals, principals, parish or city supervisors of instruction, supervisors of child welfare and attendance, special education supervisors, or comparable school/district leader positions). An individual can move from an Educational Leaders Level 1 to a Level 2 license upon completion of the Educational Leader Induction Program and the required years of experience. A Level 3 license qualifies an individual for employment as a district superintendent.

### **Admission**

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Prospective master's degree students must meet the admission requirements established by the Educational Leadership Program. Applicants must have an undergraduate grade-point average of at least 2.5 and must present scores from the General Test of the Graduate Record Examination that were earned in the last five years. A minimum GRE score is determined by the program. Master's degree applicants are considered based on criteria developed and published by the faculty. Presentation of the GRE scores and undergraduate grade-point average does not guarantee admission to the program. Admission to the program includes an application procedure as determined by the program. Admission decisions are based on all criteria considered in relationship to the need of the program and number of students who can be reasonably accommodated.

### **Program of Study**

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Students in Educational Leadership complete the Master of Education (M.Ed.) degree program in K-12 Educational Leadership which includes 36 credit hours including three hours of research. The Master of Education in K-12 Educational Leadership is an approved Educational Leader Level 1 certification program by the Louisiana Board of Elementary and Secondary Education. A Program of Study must be completed at the end of the student's first year of enrollment in the master's program.

### **Retention and Graduation Standards**

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To remain in the master's program, students must not accumulate more than two grades lower than a B and must meet all requirements of the Educational Leadership program. M.Ed. students must pass the Comprehensive Examination. The comprehensive exam cannot be taken more than twice.

### **Transfer Credit**

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A student, with approval from the major professor and the department, may transfer six semester hours of graduate credit in which grades of B or better were earned that were taken in residence at another university outside the LSU System or as many as 12 semester

hours of graduate credit taken within the LSU System. These transfer hours may be included in the program of study. Transfer credits, as well as all credits earned toward the degree, must have been taken within the eight years prior to graduation. Credit for individual courses taken more than eight years before the completion of the degree, may be validated by the student's major professor upon demonstration that the student has current knowledge covered in the course.

### **Comprehensive Examination**

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M.Ed. degree students must pass a comprehensive examination, which must be taken near the end of the student's degree program. The examination covers all of the core areas of the student's field of study. The student must be enrolled at the University during the semester in which the Comprehensive Exam is taken and during the semester of graduation.

### **Requirements for the Doctoral Degree**

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The Educational Administration Ph.D. program is intended for those who plan an inquiry into the issues of educational administration through a theoretical framework. The Ph.D. studies in educational administration emphasize research methodology, both quantitative and qualitative. Courses are available in school and higher education administration. Study for the Ph.D. is suited for those who plan careers in school and university administration, university teaching, research departments of large school systems or state agencies, or any education-related leadership profession.

The general regulations and procedures governing programs leading to the Doctor of Philosophy, as explained elsewhere in this catalog, will be followed. Specific application of these regulations and procedures to doctoral programs in education, as well as fundamental differences in the programs, are listed below.

### **Admission**

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Prospective Ph.D. degree students must meet the admission requirements established by the Graduate School. In addition, applicants must complete the General Test of the Graduate Record Examination. Ph.D. degree applicants are considered based on criteria developed and published by the faculty. To be considered for admission to the program without probation, an applicant must present a minimum score on the GRE as determined by the program, and must have a graduate grade-point average of at least 3.50. Presentation of the minimum test scores and graduate grade-point averages does not guarantee admission. Admission decisions are based on all criteria considered in relationship to the needs of the program and number of students who can be reasonably accommodated. Applicants who present test scores or graduate grade-point averages that are lower than those listed above may be considered for admission on probation. In addition to the UNO Graduate Application, applicants to the Ph.D. program in Educational Administration must also submit the following: transcripts from all post-secondary schools attended; Graduate Record Examination scores from the General Test taken within the last five years; a UNO College Educational Administration application for doctoral studies; a personal statement; a current resume; and three letters of reference. It is recommended that applicants consult at least one program faculty member early in the process of preparing the application. Students who submit complete applications prior to the date published by the department are considered.

### **Program of Study**

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The Ph.D. program goes well beyond the accumulation of graduate course credits. It includes coursework, completion of examinations, a research project, and a dissertation. The degree program includes a minimum of 93 credits beyond the bachelor's degree. Students take a group of core doctoral courses, research methods courses, and concentration courses either in K-12 or higher education administration,

and electives. Students should consult the department for specific requirements.

### **Research Tools**

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Ph.D. students must complete a minimum of 21 credits in educational research methods. Students develop competency in both quantitative and qualitative research methods.

### **Retention Standards**

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Ph.D. degree students will be dismissed for any of the following reasons: they accumulate six or more hours of grades lower than B in graduate coursework required in their programs of study; their cumulative UNO graduate grade-point average for two consecutive semesters (fall and spring or spring and fall) is below 3.0; they fail the qualifying, general, or final (dissertation defense) examination twice; or they fail to maintain continuous enrollment in all fall and spring semesters until successful completion of the dissertation and graduation.

### **Residency**

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A doctoral student must earn two consecutive semesters of a minimum of nine hours of residence. The doctoral residence requirement may be met alternatively by three semesters of enrollment at six or more hours, which may be non-consecutive.

Students who are in residence for the purpose of the above requirements are expected to devote all of their energies to graduate study under the direct supervision of a major professor and/or advisory committee.

### **Transfer of Credit**

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A student, with approval from the major professor and the department, may transfer all credits earned toward one or more master's degrees completed at other universities and up to 15 semester hours earned outside of a master's degree program. Only graduate credits in which grades of B were earned that were taken in residence at another university may be transferred. These transfer hours may be included in the program of study. A minimum of 54 credits must be earned at UNO.

### **Research Project**

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Doctoral students complete a research project as defined by the faculty prior to taking their general examination.

### **Continuous Enrollment**

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Doctoral students, after being admitted to the Ph.D. program, must enroll in graduate courses each fall and spring until being awarded the degree. A leave of absence must be formally requested from the faculty prior to any semester in which this requirement is not met. Students will be dismissed if they fail to meet this continuous enrollment requirement.

### **Qualifying Examination**

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After successful screening into the PhD program, and typically during the second semester of their enrollment in the program, students must successfully complete the Qualifying Examination to qualify for continued enrollment in the program. Program faculty develop exam content and evaluate student responses to the exam. The exam is designed to assess the level of critical thinking and scholarly writing demonstrated by the student.

### **General Examination**

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Students must successfully complete a general examination to continue in the Ph.D. program. Students may take the general examination when they have completed the pre-dissertation research project and most of their coursework, as defined by the faculty.

## Time Limit

New doctoral students must complete their degree within a 13-year period of admission to the program.

## Special Education and Habilitative Services

### Programs in Special Education

Graduate study is offered in special education which may lead to the Master of Arts in Teaching (MAT), Master of Education (M.Ed.), or Doctor of Philosophy (Ph.D.). The Master of Arts in Teaching (MAT) degree is designed to offer candidates with a bachelor degree outside the field of education an opportunity to address the requirements of an initial level teaching certificate within a master's degree program. Candidates enrolled in the MAT option may address the certification requirements for early intervention, deaf/hard of hearing, significant disabilities, or dual certification in general education and special education – mild/moderate disabilities. The Master of Education (M.Ed.) degree is designed to offer candidates who already hold teacher certification an opportunity to address one or more advanced preparation objectives including the requirements of an add-on certification option, advanced preparation in their existing certification area, coursework addressing an advanced skill set, or additional training in one or more content areas. The program of study for the Doctor of Philosophy (Ph.D.) provides maximum flexibility for each graduate student in designing a program which will meet professional objectives. The doctoral program incorporates innovative approaches to leadership training grounded in the interaction of theory and practice.

### Requirements for the Master of Arts in Teaching (MAT) Degree

The Master of Arts in Teaching in Special Education offers certification in deaf/hard of hearing (grades 1-12), early intervention (birth – age 5), significant disabilities (grades 1-12) and mild/moderate disabilities (grades 1-5, 4-8 and 6-12). The mild/moderate disabilities certification is offered through an Integrated to Merged program which results in certification in mild/moderate disabilities and in elementary (grades 1-5), middle grades (grades 4-8), or secondary education (grades 6-12). Note that certification in Middle school and secondary is specific to one content area.

The Master of Arts in Teaching program requires 36-39 graduate credit hours in the following areas: learner and the learning environment, teaching methodology, literacy, research, and internship/student teaching. Details on the program of study for each certification option may be found at the college website at <http://coehd.uno.edu/Programs/>.

### Admission

In addition to the admission requirements established by the Graduate School which include an overall grade point average of 2.5 and a satisfactory score on the Graduate Record Examination (GRE), candidates must achieve passing scores on PRAXIS I as well as the relevant PRAXIS II subject assessment. PRAXIS I is not required for candidates with an ACT composite score of 22, an SAT (verbal and math) score of 1030, or who already have a Masters degree. The College office must have official scores. All candidates must submit official transcripts from each college and university attended. One transcript with all transfer credits is not acceptable. All initial advising for this program occurs via the College of Education and Human Development Academic Counselors. Following initial advising, candidates are advised by a Faculty Advisor in the Department of Special Education and Habilitative Services for the duration of their program of study.

### Field Experience Requirements

Throughout the program, candidates complete field activities in

school and classroom settings. Field work is supported in two ways: through assigned work associated with individual classes and within a student teaching (9 credits) or internship (6 credits) experience taken at the end of the program of study. Field experience opportunities support candidates in meeting all national and state standards associated with their certification area. The program includes specific requirements for the number and type of field experience hours that must be completed as well as for the development of an electronic portfolio that aligns artifacts resulting from field work with specific professional standards. More information on field experience requirements may be found at the college website at <http://coehd.uno.edu/Programs/>.

### Requirements for Completing Program

All certification programs in the College of Education and Human Development are performance-based. Candidates develop a professional portfolio to document the knowledge, skills and dispositions associated with effective teaching. Completion of the program of study requires successful performance in coursework, field experience, and candidate assessments specific to the area of study. In addition to assessments associated with specific courses in the program, candidates must pass a final assessment to complete the program and be recommended for a teaching certificate. More information on candidate assessment and program progression requirements may be found at the college website at <http://coehd.uno.edu/Programs/>.

### Louisiana Teacher Certification

Candidates who successfully complete all program requirements are recommended to the Louisiana Department of Education for a teaching certificate. All conditions listed above under “Louisiana Teacher Certification” must be satisfied. Candidates enrolled in this program while teaching may be eligible for a Practitioner License upon recommendation by the hiring school district.

### Requirements for the Master of Education (M.Ed.) Degree

The Department of Special Education and Habilitative Services has an advanced master's degree program which provides an opportunity for the student to pursue additional certifications representative of the field. The certifications listed below can be embedded within the program which:

1. Mild/Moderate Disabilities
2. Significant Disabilities
3. Educational Diagnostician
4. Early Intervention
5. Deaf/Hard of Hearing
6. Blind/Visually Impaired
7. Gifted/Talented Education

### Admission

Admission to a M.Ed. program in Special Education requires a grade-point average of at least 2.5 for undergraduate work and 3.0 for graduate work, if applicable, and completion of the Graduate Record Examination. In addition, applicant must be certified in an area of education. Students who do not meet the above GPA or GRE requirements may petition for probationary admittance.

All required records of the applicant must be on file in the office of the Graduate Program Coordinator of the Department of Special Education and Habilitative Services, before any action will be taken on the application.

### Program of Study

The master's program in Special Education (M.Ed.) includes a minimum requirement of 36 semester hours including a minimum of three hours in research methods and a minimum of six semester hours in a minor or related fields outside of the major department. The graduate

student may select a concentration of study from the array of different program areas in Special Education.

A student in a master's program in the Department of Special Education and Habilitative Services may not count toward degree requirements more than six hours of graduate coursework with a grade below a B.

Each master's candidate is required to complete a minimum of 40 clock hours of field work associated with assignments in courses within the program of study. Candidates must develop an electronic portfolio aligned with professional standards to demonstrate their effectiveness as a teacher. Each candidate must also successfully complete performance assessments including a portfolio review and a written comprehensive examination. The examination concentrates on the application of educational practice and theory with emphasis on the major area of concentration, but may include the minor or related fields. Typically, the comprehensive examination is taken during the last semester of graduate study. Two failures of the examination necessitate dismissal from the master's program.

### **Requirements for the Doctoral Degree**

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The Doctor of Philosophy (Ph.D.) degree offered in Special Education incorporates innovative approaches to leadership training. The general regulations and procedures governing programs leading to the Doctor of Philosophy degree, as explained elsewhere in the catalog, will be followed.

### **Program Description**

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Students enrolled in the program address critical issues through coursework and field experiences. Primarily, courses are divided among the following areas:

1. special education,
2. research, and
3. the minor area of study.

In addition to completing formal coursework, students address identified competencies through participation in a variety of professional activities in both university and field settings. The competencies are addressed across the three leadership areas: research, personnel preparation, and systems intervention.

Students are offered concentrated areas of study within Special Education and Habilitative Services. Areas of study include mild/moderate disabilities, significant disabilities, educational diagnostician (assessment), early intervention, deaf/hard of hearing education, visual impairments, and gifted/talented education. The doctoral student selects a major area of emphasis in special education (usually based on prior educational and professional experiences) and one minor area to broaden his/her experience. A broader program of study creates flexibility and strengthens the training of future leaders in the field of Special Education and Habilitative Services.

As each student progresses through the coursework and field experiences, the program of study is further individualized. Students are expected to:

1. specialize in one of the leadership areas,
2. focus on issues and content targeted for a particular exceptional-ity group(s), and
3. focus on particular activities which allow the student to build professional skills and capacity.

Throughout the program of study, each student maintains a professional portfolio of the various products resulting from the activities selected via coursework, field experiences, and committee input. The portfolio is used as a primary component of the student evaluation process throughout the program of student.

### **Admission**

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To be considered for provisional admission to the doctoral program in Special Education and Habilitative Services, a student must meet all

Graduate School admission criteria listed in the UNO Catalog but must first meet the following required criteria:

1. Graduate Record Exam (GRE) scores on the verbal and quantitative sections of the exam. The GRE must have been taken within five years of the date of applying for admission to the Department of Special Education and Habilitative Services.
2. At least three letters of recommendation from outside the UNO community. Letters are to be addressed to the Graduate Program Coordinator in the Department of Special Education and Habilitative Services.
3. Current Vita detailing education, experience, honors and awards, and other accomplishments of the applicant.
4. Documentation of three years of professional experience in special education or a closely related field.
5. Ability to communicate effectively in written form as demonstrated by writing a personal essay.
6. Ability to articulate professional and personal goals through an oral interview conducted by the Screening Committee.

### **Acceptance**

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Screening takes place in the spring semester for admission in the fall. All paperwork should be on file in the office of the Graduate Program Coordinator in the Department of Special Education and Habilitative Services on or before the first day of April. Applicants who are favorably screened into the doctoral program are accepted provisionally. The student takes at least 12 graduate credit hours with a passing grade of "B" or higher in each course and then completes the qualifying examination. Courses to be counted are specified by the doctoral committee. In addition to the courses required, the qualifying examination is taken no earlier than one year after entering the program with approval of the major professor and doctoral committee. The qualifying examination itself focuses on activities related to the three leadership roles and is portfolio-based.

### **Required Hours**

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All doctoral students must have a minimum of 81 graduate credit hours past the baccalaureate degree. Required hours include a minimum of 18 graduate semester hours in research tools. A minimum of 36 credit hours in Special Education and Habilitative Services is required for the Ph.D., including five core doctoral seminars focusing on professional skills and leadership roles, a minimum of nine hours of dissertation study, a minimum of three credit hours of internship and a minimum of six credit hours in one of the leadership role areas of research, systems intervention, or personnel preparation. Also, minimum of 18 credit hours is required in a minor area of study. Students also complete a minimum of three hours in educational foundations which may not include research courses. Any student in the doctoral program who accumulates six semester credit hours of graduate coursework with a grade of C or lower will be dropped from the program.

### **Internship**

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Doctoral students must complete an internship as part of the program of study. The internship activities are individualized and determined by the student, the major advisor, and doctoral committee. Typically, the internship is used to build the students' skills in one or more of the areas of research, personnel preparation, and systems intervention.

### **Residency**

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All doctoral students are required to adhere to the residency policy established by the Graduate School.

### **General Examinations and Doctoral Candidacy**

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To be admitted to doctoral candidacy status, a student must pass

a portfolio-based general examination. A doctoral student becomes eligible to take the general examination after demonstrating adequate academic and professional growth to his or her doctoral committee through on-going portfolio evaluation. In addition to passing the general examination, a doctoral student must demonstrate research competence by participating in all phases of a pre-dissertation project prior to applying for candidacy to the doctoral program and beginning work on the dissertation. If a student fails the general examination twice, he/she will be dismissed from the doctoral program.

#### Time Limits

Doctoral students must take the general examination within five years after passing the qualifying examination. Doctoral candidates must complete all requirements, including a dissertation that demonstrates original scholarship, within five years of passing the general examination. Extension of time limits may be requested by petitioning the department as long as the request does not exceed the stated provisions of the Graduate School.

### GRADUATE PROGRAMS IN ENGINEERING

The College of Engineering offers a Master of Science in Engineering, a Master of Science in Environmental Engineering, a Master of Science in Engineering Management, a Ph.D. in Engineering and Applied Sciences, and participates in the Ph.D. in Urban Studies program, allowing applicants with various backgrounds and goals to be accommodated.

#### Admission

Applicants seeking admission to the graduate program in engineering must have received a bachelor's degree in a field of engineering from an ABET accredited engineering program or, in the case of foreign students, must present evidence of an equivalent preparation. Furthermore, applicants are expected to have a grade-point average (GPA) of 3.0 or better for undergraduate work and all graduate and post-bachelor work. Applicants who have an undergraduate GPA between 2.5 and 3.0 may be considered for probationary admission on a case-by-case basis which will include a review of their last 60 hours of engineering course work and GRE scores. In addition, the student is required to complete the GRE with scores indicating that the student will perform well in a strong MS program.

Applicants with Bachelor of Science degree in mathematics, the sciences, or other undergraduate degrees will be considered on a case-by-case basis. Such students must complete a core program specific to each department including any prerequisite for each or pass the equivalent credit examinations with a grade of "B" or better. *See the website of each department for the course listings.*

Furthermore, all students must complete all requirements for the graduate courses in which they wish to enroll, and must meet any additional general requirements as may be stipulated by the Graduate School or the College of Engineering.

### Master of Science in Engineering

#### Master of Science in Engineering Degree Requirements

After admission, students are required to select an area of concentration (either civil, environmental, electrical, mechanical, or naval architecture and marine engineering). A choice is provided between a thesis or a research program, calling for 30 hours of graduate work, including six hours of thesis research; and a non-thesis (or course only) option, requiring 33 hours of graduate credit.

#### Applicants without an Undergraduate Degree in Engineering

Students who do not have an engineering undergraduate degree must complete a core foundation of general engineering studies by

taking the appropriate undergraduate courses listed in the catalog for the Bachelor of Science in Engineering and any prerequisites to these courses.

#### Concentration Certificate

The Master of Science program allows for the election of concentrations. A concentration indicates you have taken sufficient courses (9 of the 12 elective credit hours) in a specific area to merit a Concentration Certificate. The Concentration Certificate is issued by the Associate Dean for Research and Graduate Studies in the College of Engineering.

Concentrations are allowed in the following areas:

- Civil and Environmental Engineering
- Electrical Engineering
- Mechanical Engineering
- Naval Architecture and Marine Engineering

The following additional concentrations are allowed for students in the Engineering Management program:

- Finance
- International Business
- Human Resource Management
- Management of Information Systems

### Master of Science in Environmental Engineering

The College of Engineering offers a program of graduate study leading to the degree of Master of Science in Environmental Engineering. The educational objectives of the M.S. in Environmental Engineering program are to fill the need for engineers who are prepared to provide the highly specialized expertise needed to solve environmental problems of concern to industry and urban communities. To meet this demand, the program provides the following sub-specialties within environmental engineering: municipal water and wastewater treatment; collection, treatment and disposal of solid waste and hazardous substances; air pollution monitoring, modeling, control and management; and water resources/environmental modeling.

The environmental engineering curriculum has a core of a minimum of 12 credit hours, which include: Civil Engineering 4325 or equivalent, 4328 or equivalent, 6331 or equivalent, 6332 or 6333, and EES 4730. A student seeking a master's degree in environmental engineering must complete a minimum of 30 hours of graduate work, including six hours of thesis research.

The preferred applicant will possess a BS in an ABET credited engineering program, or foreign equivalent. Other BS degrees in physics, chemistry, mathematics, biology, environmental science, and similar programs will be considered. Students with non-engineering degrees will have to complete the engineering science requirements listed below.

#### Applicants without an Undergraduate Degree in Engineering

Students who do not have an engineering undergraduate degree must complete a core foundation of general engineering studies by taking the appropriate undergraduate courses listed in the catalog and any prerequisites to these courses, or by passing equivalent credit examinations with a grade of B or better.

### Master of Science in Engineering Management

The College of Engineering offers an M.S. degree in Engineering Management. This program makes use of the expertise and resources of the faculty of both the College of Engineering and the College of Business Administration. This program is intended for engineers who wish to remain in their engineering area of expertise but desire to improve their managerial skills and their understanding of business practices.

## Admissions

Students admitted into the master of science of engineering management or certificate programs must possess an undergraduate degree in engineering. The program is not open to students with a non-technical education. Those with technical, but non-engineering, degrees must receive permission of the Dean of the College of Engineering in order to enter the program. Candidates for the engineering management graduate program must meet the general University of New Orleans criteria for admission to graduate school and must also have an undergraduate GPA of at least 3.0. Applicants who have an undergraduate GPA between 2.5 and 3.0 may be considered for probationary admission on a case-by-case basis which will include a review of their last 60 hours of engineering course work and GRE scores.

## Master of Science in Engineering Management Degree Requirements

There are two options available for the degree of Master of Science in Engineering Management, the non-thesis and the thesis option.

### 1. Non-thesis Option

Completion of 33 credit hours including 18 credit hours of required core courses and three credit hours for a capstone course. The remaining 12 credit hours must be selected from approved electives.

### 2. Thesis Option

Completion of 30 credit hours including a minimum of six credit hours of thesis research, and 18 credit hours of required core courses. The remaining six credit hours must be selected from approved electives.

## Doctor of Philosophy in Engineering and Applied Science

The Doctor of Philosophy in Engineering and Applied Science is an interdisciplinary, integrative degree involving faculty from the College of Engineering and the College of Sciences. The program is designed for engineers who need to improve their interdisciplinary skills and is intended for engineers who want to understand how to use technology as a competitive advantage and to use advanced methods to achieve that end.

## Admissions

Admission to the doctoral program is based on reasonable evidence that the applicant will prove capable of scholarly research on a broad intellectual foundation. All students enrolling in the program must have a Master's degree from an accredited college or university in engineering, physics, mathematics, geology/geophysics, computer science, or a closely related field, or be willing to complete coursework required in an existing Master's program in one of the participating departments at UNO while pursuing the Ph.D. Admission decisions will be based primarily on grade-point average, Graduate Record Examination scores, and letters of recommendation. Foreign applicants (non-English speaking countries) must also have a satisfactory TOEFL score.

## Doctor of Philosophy in Engineering and Applied Science Degree Requirements

Students enrolled in the program must satisfy all general requirements of the UNO Graduate School. Following are the formal procedural requirements for students to receive the Ph.D. degree in Engineering and Applied Science.

Ph.D. candidates must complete a minimum of 51 semester credit hours of graduate course work in an approved program beyond the Bachelor's degree, not including the dissertation. The credit hours may include up to 30 semester hour credits obtained in a Master's degree program, if the area of the Master's degree is relevant to the doctoral

program. Up to six of these 30 credits may be for thesis research. In addition, a doctoral dissertation based on the results of original research under the guidance of a faculty committee and defended in a public examination is required for the doctoral program. At least 30 semester hours of dissertation credit must be earned.

Departments participating in the program are Civil and Environmental Engineering, Electrical Engineering, Mechanical Engineering, Naval Architecture and Marine Engineering, Computer Science, Geology and Geophysics, Mathematics, and Physics. The student's dissertation advisory committee will consist of at least five members. No more than three can be from any one department. There must be at least one committee member from each of the colleges of Engineering and Sciences. Program qualification is administered by the department of the principal advisor(s). It is based on material in a typical departmentalized master's degree program, or equivalent. Courses are chosen with the consent of the dissertation advisory committee. The committee shall consider the interdisciplinary nature of the program when it approves the courses. A minimum of nine credits (three courses) must be taken in each college. A General (comprehensive) Examination will be administered by the dissertation advisory committee. The examination will be based on material in the student's program of study. After passing the General Examination the Ph.D. student is expected to write a dissertation prospectus and defend it before the dissertation advisory committee. After a successful defense and committee approval of the prospectus, the student may pursue research leading to the dissertation. (The student must register for a minimum of 12 dissertation credits before successful defense and approval of the prospectus provided that Program Qualification has been successfully completed.) The dissertation should reflect the interdisciplinary nature of the program. There must be a final public defense of the dissertation administered by the dissertation advisory committee.

## Financial Aid

Teaching and research assistantships are available to qualified graduate students on a competitive basis.

## GRADUATE PROGRAMS IN LIBERAL ARTS

### Applied Anthropology Track

The Department of Anthropology and the Department of Planning and Urban Studies in the School of Urban and Regional Studies provide an Applied Urban Anthropology track within the Master of Science in Urban Studies.

The program allows students to gain significant background in applied anthropology through course work in cultural anthropology, cultural resource management, and preservation. Applicants must submit transcripts of prior academic work, Graduate Record Examination scores, and three letters of recommendation. Please refer to a detailed description of the program in the Master of Science in Urban Studies degree section in this catalog.

### Arts Administration

The Master of Arts in Arts Administration is interdisciplinary in nature, involving the Department of Film, Theatre and Communication Arts, the Department of Fine Arts, the Department of Music, and the College of Business Administration. It is built on graduate courses offered by those departments and on specialized courses in Arts Administration. The Arts Administration faculty consists of core faculty from the areas involved and other faculty whose interests are relevant to the program.

The Master of Arts in Arts Administration is designed to prepare students to serve as administrators and managers in all types of arts institutions, among them galleries, theatres, performing arts centers, and community arts centers. Included in the curriculum are courses

in both business and the arts, as well as an internship designed to give students practical experience in the field.

### Admission

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A student must be accepted by both the Graduate School and the Advisory Committee for Arts Administration. To be admitted to graduate studies in Arts Administration, a student must have:

1. a bachelor's degree from an accredited college or university;
2. a composite score verbal and quantitative of 1000 on the Graduate Record Examination or a minimum of 400 on the Graduate Management Admission Test (depending upon the student's area of undergraduate study);
3. a grade-point average of 2.5 for undergraduate work and 3.0 for post-baccalaureate work, on a 4-point scale; and
4. satisfactory academic standing at the last college or university attended.

In addition to the above, experience in business and/or the arts is desirable but not required.

### Financial Aid

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Graduate assistantships are available to a limited number of qualified applicants each year.

### Master of Arts in Arts Administration Degree Requirements

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Students pursuing the degree in Arts Administration are required to present credit for a number of foundation courses, or their equivalents in business-related areas. These are *undergraduate-level courses and are not counted* toward the 36 hours of graduate-level courses needed for the degree. These courses may be taken after admission to the program, during summer sessions or concurrently with other graduate courses, providing prerequisites are met. These courses will be waived if students can provide documentation of equivalent courses already taken and the decision will be up to the discretion of the Director of the program.

The foundation courses are as follows:

#### Business Related

- ACCT 2100 Principles of Accounting
- ECON 4400 Economic Foundation for Managers
- BA 3010 The Legal Environment of Business
- MKT 4400 Marketing Foundation for Managers

#### Arts Related

- One undergraduate level visual arts course
- One undergraduate level music course
- One undergraduate level theatre course

Students pursuing the Master of Arts in Arts Administration will select an area of arts specialization and will take 36 hours of graduate-level courses to complete the degree, which include:

1. Three (3) hours of approved *graduate-level* courses in the areas of the arts. Students can also opt to apply a practicum in this area.
2. Three (3) hours of approved graduate level *business or nonprofit organization* electives.
3. Three (3) hours of *either arts or business* graduate-level courses.
4. Electives may be selected from among current university offerings and may reflect the student's area of interest from art history to film production.
5. Each of the following Arts Administration overview courses totaling twelve (12) hours:
  - AADM 6504 Theatre Arts Overview for Arts Administration
  - AADM 6405 Visual Arts Overview for Arts Administration
  - AADM 6506 Music Overview for Arts Administration
  - AADM 6246 Arts Technology Overview
6. Each of the following Arts Administration courses totaling fifteen (15) hours:
  - AADM 6501 Development Strategies for Arts Organizations
  - AADM 6502 Arts Administration: Legal and Business Application

AADM 6503 Marketing the Arts

AADM 6990 Internship in Arts Administration (6 hours)

Final degree requirements include a comprehensive exam before a student enrolls in an internship. Upon completion of the internship, an internship report is submitted for review by selected faculty.

### English

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#### Master of Fine Arts

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The English Department participates in the Master of Fine Arts degree in Film, Theatre, and Communication Arts. Fiction writers, playwrights, poets, and screenwriters take course work in English as well as Film, Theatre, and Communication Arts. See the section on Film, Theatre, and Communication Arts for description and information on admissions, degree requirements, and graduate assistantships.

#### Master of Arts Programs

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The MA program in English is designed to develop the student's knowledge of literature and language and skill in literary research and criticism. Though it is aimed primarily at preparing students for further graduate study leading to the degree of Doctor of Philosophy, the program also provides training for teachers of English in secondary schools and colleges and offers the opportunity for rigorous advanced study in the humanities preparing qualified persons for nonacademic professions.

#### Admission

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Admission is based on undergraduate and graduate GPA, GRE scores, and a statement of purpose. Applications are accepted at any time; students may enroll in any semester.

#### Master of Arts in English Degree Requirements

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The Master of Arts in English Program requires its students to take a number of core courses, to choose a concentration, to take the courses required for that concentration, and to complete 30 or 36 credit hours. Students who choose to demonstrate a reading knowledge of an appropriate foreign language are required to take 30 hours to complete their degree. Those who do not choose the foreign language option are required to take 36 hours to complete their degree.

The core courses are: ENGL 6280, 6230 or 6231; one course in British Literature numbered 4000 or above; one course in American Literature 4000 or above; one course in writing or rhetoric numbered 4000 or above.

There are four possible concentrations, and they are configured as follows:

1. Concentration in American Literature:
  - a. One of the following: ENGL 4030, 4031, 4091, 6001, or 6090 (where appropriate as determined by the Graduate Coordinator) and
  - b. One of the following: ENGL 4032, 4033, 4034, 4092, 4093, 6007, or 6090 (where appropriate as determined by the Graduate Coordinator) and
  - c. One additional American Literature course numbered 4000 or above.
2. Concentration in British Literature:
  - a. One of the following: ENGL 4401, 4421, 4501, 4516, 4521, 4522, 4601, 4616, 4621, 6400, 6480, 6500, 6520, 6600 and
  - b. One of the following: ENGL 4701, 4702, 4715, 4716, 4801, 4802, 4807, 4808, 4815, 6700, 6801, 6807, or 6900 and
  - c. One additional British Literature course numbered 4000 or above.
3. Concentration in Professional Writing:
  - a. ENGL 4152 and
  - b. One Journalism course numbered 4000 or above and
  - c. One of the following: ENGL 4151, 4154, 4158, 6232, 6154, or 6390

(where appropriate as determined by the Graduate Coordinator), or 6398

4. Concentration in Teaching:

- a. ENGL 6281 and
- b. One of the following: ENGL 4151, 4154, 4161, 4163, 6151, 6154, 6161, 6163, 6230, 6232 or 6390 (where appropriate as determined by the Graduate Coordinator) and
- c. One additional course in literature numbered 4000 or above.

All students admitted to the graduate program will be referred to the Coordinator of Graduate Studies in English, who will guide each student in selecting and following a sound program of study suited to his or her needs and level of preparation. This program may, in individual cases, involve more course work than is specified in the general requirements for the degree. In all cases, a minimum of 18 hours must be earned in English courses numbered 6000 and above. One three-hour Directed Study course (English 6397) may be counted toward fulfillment of this minimum requirement. For those students who select the thesis option, three hours of Thesis Research (English 7000) will count toward the 18-hour requirement.

All students must take a three-hour written comprehensive examination in one of the following fields: American Literature; British Literature; Rhetoric and Composition; Classical Rhetoric; or Professional Writing. Students may choose to take another comprehensive examination in another of the fields above; or they may instead write and defend a thesis. The M.A. thesis (usually 30-40 pages long) is written under the supervision of an advisor assigned to the student by the Graduate Coordinator. Credit for English 7000 (Thesis Research) is granted only after the candidate has passed a one-hour oral examination on the thesis administered by a committee appointed by the Dean of the Graduate School and the thesis has been approved by the committee.

## Master of Fine Arts in Film, Theatre and Communication Arts

The Department of Film, Theatre, and Communication Arts offers the Master of Fine Arts degree. Students may elect to concentrate in Film Arts-Production, Theatre Arts-Performance or Design, or Communication Arts-Creative Writing. The Department is accredited by the National Association of Schools of Theatre. MFA programs in Theatre Arts reflect NAST's highest standards. The Master of Fine Arts is a terminal degree for students interested in pursuing careers in film production, in theatre arts, and in creative writing. Areas of specialization in Film Arts and Theatre Arts include filmmaking, acting, directing, and design; and in creative writing include fiction writing, nonfiction writing, playwriting, poetry writing, and screenwriting.

MFA tracks in Film and Theatre Arts require the following 18 hour core:

FTCA 6020 Form and Idea in the Media	3
FTCA 6040 Performance and Direction	3
FTCA 6060 Concept, Conflict, and Character	3
FTCA 6910 Studio Thesis I	3
FTCA 6911 Studio Thesis II	3
FTCA 6912 Studio Thesis III	3
FTCA 6005 Graduate Studies in Orientation	0

### MFA Film Arts-Production

The Master of Fine Arts track in Film Arts includes a 21-credit hour production core which exposes students to the broad processes of filmmaking. Nine credit hours of Analysis provide an important theoretical and historical framework for film production. The remaining twelve credit hours (Application Electives) may be used to apply knowledge and training to a special focus within the curriculum.

#### MFA Film Arts Production Requirements (21 hours required)

I. Production

4500 Film Development and Planning	3
4510 Film Production	3
4520 Film Postproduction	3
4530 Advanced Project in Film Production	3
4565 Digital Theory and Application for Film and Video	3
6250 Seminar in Screenwriting	3
6580 Film Directing	3
II. Analysis (9 hours required)	
4540 Development of the Cinema	3
4545 Film Theory and Criticism	3
6610 Seminar in Film Arts	3
III. Application Electives (12 hrs. required) Select from list below.	
4090-95 Special Topics	6
4096 Special Topics in Film Production	3
4460 Documentary Production	3
4550 Cinematography	3
4551 Spring Film Crew	1
4555 Spring Film Production	3
4566 Production Sound for Film	3
4567 Postproduction Sound for Film and Video	3
4568 Special Topics: Visual Effects	3
4570 Acting for the Camera	3
4580 Film Directing	3
4591 Film Styles and Genres	3
4900 Internship	3
6001 Practicum in Production	3
6090 Directed Independent Study	3
6100 Visual Design for Stage and Screen	3
6250 Seminar in Screenwriting	3
6900 Graduate Internship	3

### Arts-Performance (Acting and Directing) and Design

MFA program tracks in Performance and Design are intended to prepare our graduate students to successfully apply acquired skills to the art of theatre, make significant cultural contributions to their community, or become leaders in an educational environment aspiring to the highest artistic standards.

#### MFA Performance Requirements (Acting)

I. Production/Literature (12 hrs. required) Select four courses from list below:

4260 Styles in Theatrical Production	3
4400 Development of Theatre	3
4450 Modern Theatre	3
4455 Contemporary Theatre	3
6001 Practicum in Production	3
6090 Directed Independent Study	3
6420 Problems in Performing and Visual Arts	3
6460 Aesthetics of Script Analysis	3

\* 4301 Voice Stylization may be substituted for three credits

\*\* 4333 Combat for Stage and Film or 4831 Movement Applications may be substituted for three credits.

#### MFA Performance Requirements (Directing)

I. Production (6 hrs. required)

Select two courses from list below:

4260 Styles in Theatrical Production	3
6000 Practicum in Research	3
6001 Practicum in Production	3
6090 Directed Independent Study	3
6240 Problems in Performing and Visual Arts	3
6460 Aesthetics of Script Analysis	3
6900 Graduate Internship	3

II. Literature (6 hrs. required)

Required: 4450 Modern Theatre

Plus select one course from the list below:

4400 Development of Theatre	3
4455 Advanced Studies in Contemporary Theatre	3
ENGL 4221 or 4222 Shakespeare	3
ENGL 4516 Beg. English Drama	3
ENGL 4916 20th Century Drama	3
ENGL 4716 18th Century Drama	3
III. Directing Area (30 hrs. required)	
4300 Voice Training or 4301 Voice Stylization	3
6200 Seminar in Playwriting	3
6330 Acting	3
6380 Directing	6
6830 Stage Movement	3
Plus, two courses in any design area(s)	6
And, two courses from Sections II or III not previously chosen	6
<b>MFA Design Requirements</b>	
I. Production (15 hrs. required)	
6001 Practicum in Production	3
6090 Directed Independent Study	3
6120 Scene Painting	3
6135 Rendering Techniques	3
4160 Lighting Crafts and Techniques	3
II. Literature (3 hrs. required)	
4450 Modern Theatre	3
III. History (6 hrs. required)	
6125 Development of Style and Form	3
6150 Development of Fashion	3
IV. Design (9 hrs. required)	
6110 Seminar in Scenic Design	3
6140 Seminar in Theatrical Costuming	3
6170 Seminar in Lighting Design	3
V. Electives (9 hrs. required)	
6140 Seminar in Theatrical Costuming	3
6170 Seminar in Lighting Design	3
6110 Seminar in Scenic Design	3
6090 Directed Independent Study	3
4455 Contemporary Theatre	3
ENGL 4521 Shakespeare	3
ENGL 4522 Shakespeare	3
ENGL 4916 20th Century Drama	3
ENGL 4716 Restoration and 18th Century Drama	3

### Admission

An applicant is accepted for graduate work in film and theatre arts upon recommendation of the graduate committee and subsequent admission to the Graduate School. Students must hold a bachelor's degree in film or theatre arts or must possess clearly demonstrated skills and creative ability in their field. Graduate Record Examination scores and at least three letters of recommendation should be submitted. All applicants must submit evidence of their ability in the proposed area of specialization. Auditions, prompt books, portfolios, manuscripts, video tapes, films, and other appropriate presentations are to be submitted to the department when application for admission is completed.

In addition to the requirements of the Graduate School, the following must be met:

- Satisfactory completion of at least 60 hours of Film, Theatre, and Communication Arts courses. With written permission of the department, the candidate may take up to six hours in a field outside the department.
- At the completion of 18 or more hours of course work the student will be evaluated by the graduate committee. If the first-year review demonstrates sufficient progress, the student will be invited to continue in the program.

- A grade-point average of 3.0 or better is required in all course work.
- Normally students must be in residence at least two semesters taking a full load of at least nine hours each semester. Summer sessions may not apply. Under special circumstances this residency requirement may be waived by the department. Upon completion of one-half of the student's required work, his or her major professor will be designated by the department. Ordinarily this professor will serve as chairman of both the examining committee and the publicly presented creative thesis project.

### Comprehensive Examination

Normally students may take the Comprehensive Examination no sooner than the term in which they have completed 36 hours of graduate credit. This examination will be both written and oral. At least three members of the graduate faculty, one of whom may be from a department other than Film, Theatre, and Communication Arts, appointed by the Dean of the Graduate School, will administer the examination. Part of the examination will be devoted to questions based on the reading list and course work, and the remainder will be devoted to questions relating to the student's individual area of specialization.

### Publicly Presented Creative Thesis Project

The thesis project will be prepared under the supervision of a committee appointed by the Dean of the Graduate School. This committee ordinarily will consist of three members of the graduate faculty of the department. After successful completion of the comprehensive examination, the candidate will submit a written prospectus for a publicly presented thesis project. The research and execution of this project normally will take nine studio hours. The MFA Thesis project is designed to test the student's skill and knowledge in his or her area of specialization. The project is subject to the graduate committee's approval.

Students who have earned graduate credits in film, theatre, video, or its equivalent from other institutions may apply for admission into the Master of Fine Arts program. However, the maximum allowable transfer credit must conform to the Graduate School's policy on extension and transfer credit. Transfer credit is subject to the graduate coordinator's recommendation and approval by the Graduate School.

### Creative Writing

#### Admission

An applicant is accepted for graduate work upon the recommendation of the creative writing faculty and subsequent admission to the Graduate School. Students must hold a bachelor's degree and must possess clearly demonstrated skills in a creative writing genre. Graduate Record Examination scores, undergraduate transcripts, a personal statement, and three letters of recommendation should be submitted. All applicants must identify the genre in which they plan to specialize and submit a portfolio of their writing in the genre (two plays of any length, a feature-length film script, two short stories or a 25-page novel excerpt, ten poems, two short nonfiction pieces, or a 35-page book excerpt). In addition to the requirements of the Graduate School, the following must be met:

#### Resident option

- Completion of at least 45 hours of Film, Theatre, and Communication Arts and English courses.
- Fifteen hours of 6000-level course work in creative writing workshops, at least 12 of which will be in the thesis genre. These required courses are: for fiction writing, English 6161; for poetry writing, English 6163; for nonfiction writing, English 6154; for playwriting, Film, Theatre, and Communication Arts 6200; and for screenwriting, Film, Theatre, and Communication Arts 6250.

- Three hours in Film, Theatre, and Communication Arts 6020 (Form and Idea) and three hours in English 6154 (Nonfiction Writing). For students whose genre is nonfiction writing, a sixth required workshop in a genre other than nonfiction is required in place of the three required hours in English 6154 required of students in the other genres.
- Nine hours in background courses.
  - Fiction and poetry writing students will be required to take this in the literature of their genre.
  - Screenwriting and playwriting students will be required to take six hours of techniques courses and a three-hour course in their genre.
- A grade of B or better in all required course work.
- Nine hours of electives. Chosen in consultation with the Director of Creative Writing, these elective hours will be expected to conform to a cohesive program of study.
- An overall GPA of 3.0 in elective courses.
- A creative thesis for which the student may receive six hours of preparation credit. The creative writing thesis will be prepared under the supervision of a committee approved by the Dean of the Graduate School. The committee will ordinarily consist of three members of the graduate faculties of the departments of Film, Theatre, and Communication Arts and English, the thesis director and at least one other member who teaches in the student's genre.
- A comprehensive exam in the student's genre area that will be prepared, administered, and graded by the thesis committee. It will concern itself with the literature of the student's genre area. Students who hold master's degrees from other UNO programs may apply for admission, but upon acceptance they must meet all requirements for the M.F.A. degree listed above and must complete 36 hours of resident or non-resident work at UNO, including all 15 hours in writing workshop courses.

### Low Residency Option

The Low Residency MFA is a unique degree-track option within the MFA in Creative Writing in the department of Film, Theatre, and Communication Arts. Low Residency MFA students take all their courses off-campus, either at one of UNO's summer study abroad sites in Europe, or via distance learning techniques on the internet. The program is a 45-hour terminal degree, with the curriculum centered on 18 hours of creative writing workshops, plus 12 hours of background courses, nine hours of electives, and six hours of thesis preparation; the required courses mirror the resident MFA degree.

- Completion of at least 45 hours of Film, Theatre, and Communication Arts and English courses, 18 hours of which must be in residence.
- Fifteen hours of 6000-level course work in creative writing workshops, at least 12 of which will be in the thesis genre area, and nine hours of which must be in residence. These required courses are: for fiction writing, English 6171 or 6191; for poetry writing, English 6173 or 6193; for playwriting, Film, Theatre, and Communication Arts 6207 or 6209; and for screenwriting, Film, Theatre, and Communication Arts 6257 or 6259.
- Three hours in Film, Theatre, and Communication Arts 6020 (Form and Idea) and three hours in Non-Fiction Writing, English 6154 or 6194 (Nonfiction Writing).
- Nine hours in background courses.
  - Fiction and poetry writing students will be required to take this in the literature of their genre.
  - Screenwriting and playwriting students will be required to take six hours of techniques courses and a three-hour history course in their genre.
- A grade of B or better in all required course work.
- Nine hours of electives. Chosen in consultation with the Director of

Creative Writing, these elective hours will be expected to conform to a cohesive program of study.

- An overall GPA of 3.0 in elective courses.
- A creative thesis for which the student may receive six hours of preparation credit. The creative writing thesis will be prepared under the supervision of a committee approved by the Dean of the Graduate School. This committee will ordinarily consist of three members of the graduate faculties of the departments of Film, Theatre, and Communication Arts and English.
- A comprehensive exam in the student's genre area that will be prepared, administered, and graded by the thesis committee. It will concern itself with the literature of the student's genre area.

### Financial Aid

Graduate assistantships are also available for qualified students in all MFA programs of study.

### Fine Arts

#### Master of Fine Arts in Fine Arts

The Master of Fine Arts program in Fine Arts is designed to provide professional training leading to a terminal degree in studio arts.

#### Admission

After a student has applied to the Graduate School, the application, images of work and letters of recommendation will be evaluated by the Committee on Graduate Studies of the Department of Fine Arts. To be accepted into the program, applicants must have an undergraduate degree and a high academic average in scholastic and studio work. Applicants who are admitted to the Fine Arts program will be assigned a sponsor by the Graduate Admissions Committee. The sponsor is a member of the Fine Arts Graduate Faculty who agrees to accept the responsibility of guiding the student through the program and who regularly teaches or exhibits professionally in the student's major area.

Students who are deficient in certain areas may be admitted on a conditional basis. They must complete both the regular requirements and fulfill the conditions imposed by the Committee on Graduate Studies.

#### History

The graduate program leading to the Master of Arts degree in history provides intensive training for well qualified students in both European and American history. It serves to prepare students for work elsewhere at the doctorate level, to provide training for teachers in the secondary schools, and to offer advanced study in the humanities for those interested in nonacademic professions.

#### Admission

Admission to the graduate history program will be determined by the department upon the basis of the applicant's personal statement, undergraduate transcripts reflecting a high level of undergraduate achievement (typically, a GPA of 3.0 or above), Graduate Record Examination scores, and two letters of recommendation from professors with whom the applicants has studied. For application instructions, prospective students should consult the department's website; <http://history.uno.edu/grad/>

#### Master of Arts in History Degree Requirements (MA)

All candidates must complete a total of 30 credit hours, with at least 15 hours in courses at the 6000 level, a maximum of 12 hours at the 4000G level, and at least three hours of thesis research.

#### Required Courses

1. History 6001 – Historical Research and Writing

2. One proseminar-seminar sequence from the following: HIST 6501-6502, HIST 6601-6602, or HIST 6803-6804.
3. History 7000 – Thesis Research.

Only grades of B or better will be accepted toward fulfillment of degree requirements.

The program will culminate with a thesis that demonstrates an appropriate level of skill in historical research and writing, as well as a comprehensive oral examination designed to test the student's general knowledge of history.

### **Concentration in International Relations (MA)**

A variation of the standard curriculum, this concentration in international relations is available to students particularly interested in government service or international business careers. This concentration does not preclude pursuit of a doctorate in history, but it is designed primarily as a terminal degree program that will expand the job opportunities of graduates. Students must complete a total of 30 credits hours and successfully defend a thesis.

#### **Required Courses**

1. History 6001 – Historical Research and Writing
2. One proseminar-seminar sequence (HIST 6501-6502, HIST 6601-6602, or HIST 6803-6804)
3. One additional proseminar in a field different from the sequence field (U.S., Europe, or non-Western)
4. POLI 4800G
5. POLI 4850G or ECON 4261\* or ECON 4262\*
6. One 6000-level course in either Political Science or Economics\*
7. HIST 7000 Thesis Research

\* Note that most upper-level Economics courses carry a prerequisite of ECON 2300, 2203, or 2204, for which no graduate credit is extended.

All candidates for the International Relations concentration must be certified as having a reading and oral proficiency in one modern foreign language. As with the standard curriculum, the concentration will culminate with a thesis and a comprehensive oral examination.

### **Concentration in Public History Degree Requirements (MA)**

A variation of the standard curriculum, this concentration in public history is available to students interested in the practice and presentation of history for a public audience, beyond the academy. This concentration does not preclude pursuit of a doctorate in history, but it is designed to provide history students with the opportunity to use New Orleans as a laboratory in which to develop skills for work in museums and other public venues. The curriculum for this concentration combines history coursework with courses in the theory and practice of public history, and a three-hour internship at a local museum, archive, or library. Students in this concentration must complete a total of 30 credit hours in one of two tracks, culminating with a thesis and a comprehensive oral examination.

### **Local & Community Track**

This track allows students to focus on historical issues of local and community interest. In addition to other coursework, students will be placed in an internship position at a local institution with the help of the internship coordinator.

#### **Required Courses**

- HIST 6001 Historical Research & Writing
- One proseminar sequence from the following: HIST 6501-6502, HIST 6601-6602, or HIST 6803-6804
- HIST 6008 Introduction to Public History
- HIST 4008G Public History Methods
- HIST 4603G Research in New Orleans History
- HIST 6992 Public History Internship

- Approved electives (6 hours) at the 4000G or 6000 level
- HIST 7000 Thesis Research

### **Military Track**

This track allows students to focus on issues pertaining to military history. In addition to other coursework, students will be placed in an internship position at a local historical museum or site with the help of the internship coordinator.

#### **Required Courses**

- HIST 6001 Historical Research & Writing
- One proseminar-seminar sequence from the following: HIST 6501-6502, HIST 6601-6602, or HIST 6803-6804
- HIST 6008 Introduction to Public History
- HIST 4008G Public History Methods
- HIST 4003G Modern Military History
- HIST 4565G U.S. Military History
- HIST 6992 Public History Internship
- Approved electives (3 hours) at the 4000G or 6000 level
- HIST 7000 Thesis Research

### **Music**

#### **Master of Music Degree**

The Department of Music offers the Master of Music degree with areas of concentration in performance, conducting (choral or instrumental), composition, and jazz studies. Each program of study requires a minimum of 33 graduate credit hours to include course work in the applied area, music theory, music history, electives in music, recital or composition, and participation in the graduate colloquium.

#### **Admission**

A Graduate Application must be submitted to the Office of Admissions. Official transcripts from all previously attended universities and Graduate Record Exam (GRE) scores must be requested and sent directly to the Office of Admissions. If the GRE has not been taken, it may be taken during the first semester of study. Only the general portion of the GRE is required.

For all student applicants, an audition and interview must be scheduled.

A student can be accepted into the graduate program in music in one of two categories:

1. Unconditional Acceptance: the student has sufficient background to enroll in the required 4000- and 6000-level courses immediately. No prerequisite courses are needed.
2. Conditional Acceptance: the student has some deficiencies in background skills. This student needs specific remedial courses before enrolling in the complete 4000- and 6000-level Master of Music curricula.

#### **Master of Music Degree Requirements**

Completion of the Master of Music degree requires a minimum of 33 hours. At the end of the program, each student will present a graduate recital. Composition majors will also submit an original composition. A thesis is not required in any of the four degree programs. All courses are selected with the approval of the major advisor.

Comprehensive examinations, both oral and written, are required during the final semester. More detailed information on curricular requirements is available from the Music Department in the handbook, "Graduate Study in Music at the University of New Orleans."

#### **Financial Aid**

A limited number of graduate assistantships is available to qualified students working on the Master of Music degree.

## Political Science

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The Department of Political Science offers comprehensive programs leading to the degrees of Master of Arts (M.A.), Master of Public Administration (M.P.A.) and Doctor of Philosophy (Ph.D.). The graduate program is designed to prepare professional political scientists and public administrators for careers in research and teaching, government, and public service.

### Admission to the M.A. and Ph.D. Programs

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In assessing the admission of a student to the M.A. program, the Graduate Committee of the Department of Political Science evaluates the academic potential of a student based on the academic record and on the Graduate Record Examination general test scores.

An applicant to the Ph.D. program, in addition to the GRE general test scores, must submit the Department of Political Science's Personal Information Sheet (available online at <http://www.poli.uno.edu/documents/pds.doc>), and three letters of recommendation from people familiar with the applicant's previous academic performance. Ph.D. students are expected to have attained a strong academic record on all work taken.

M.A. applicants interested in graduate assistantships, like the Ph.D. applicants, must submit three letters of recommendation.

### Non-Degree Students

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The 6000-level courses offered by the Department of Political Science are open to non-degree students only by special permission of the department.

### Master of Arts in Political Science Degree Requirements

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The M.A. program is flexible, permitting students to adapt plans of study to their particular needs. The program prepares students for careers in teaching, research, and public service. Candidates must complete either (1) a minimum of 33 credit hours which includes six hours of thesis research or (2) 36 credit hours and no thesis. No more than nine hours in courses numbered below 6000 and no more than six hours of thesis research may be counted toward these minimum requirements. With permission of the Department up to six hours may be taken in related departments.

All students are required to demonstrate competence in statistics. This may be satisfied either by completing Political Science 6001 and 6002 with a grade of "B" or better or by passing a departmental examination in statistics.

Students who take thesis research will write a thesis which demonstrates an appropriate level of skill in research and writing in an accepted field of political science. Students writing a thesis must pass an oral defense of the thesis. Students who choose the non-thesis option must pass a written and possibly an oral examination, depending upon the outcome of the written exam.

### Doctor of Philosophy in Political Science Degree Requirements

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The doctoral programs in political science provide intensive training in the following areas of concentration. Ph.D. candidates must select three from this list:

1. US Politics (which may include institutions, behavior, minority and urban politics, public law, and/or public policy and administration foci)
2. Comparative Politics
3. International Relations

Ph.D. candidates must select three concentrations which may consist of either of the following combinations:

1. a major in US Politics with two foci, and either Comparative Politics or International Relations as a third field; or
2. all three fields with either Comparative Politics or International

Relations as a major, and minors selected from the remaining fields.

### Requirements

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Ph.D. students must complete a set of examinations and course work. The first is the Qualifying Exam. The Qualifying Exam in political science is an oral examination that may be taken the semester following the completion of nine credit hours in the Ph.D. program, and must be taken no later than the semester following the completion of 15 credit hours. Students with an M.A. in political science from UNO, however, may take the qualifying examination during their first semester in the Ph.D. program, and they must take the examination no later than the semester following the completion of 15 credit hours. All students are encouraged to take this exam at the earliest feasible time. The exam may be repeated once. Failure to pass the exam on the second attempt results in termination from the program.

In addition to successful completion of the Qualifying Exam, a student must complete a minimum of 60 graduate credit hours overall. Included in this must be at least 30 credit hours in the student's areas of concentration, as determined by the Qualifying Committee. In addition, students must complete the research methods sequence of Political Science 6001, 6002, and 6003 with grades of "B" or better and six credit hours in dissertation research. Work taken toward a M.A. degree may be counted for this purpose, but at least 24 hours must be completed as a Ph.D. student.

After completion of all course work, but before completion of dissertation research, students must pass the General Exam. The candidate will be tested in two of the areas listed above. For majors in US Politics, both exams will be limited to US Politics. For majors in Comparative Politics and International Relations, the exam will consist of the major and one of the minor fields, as determined by the student's exam committee. The examination will be both oral and written. If the Ph.D. degree is not completed within five years after passing the General Exam, that examination must be retaken. The General Exam may be repeated once. Failure to pass the second attempt results in termination from the program.

Upon passing the general exam, students must prepare and submit a prospectus of the dissertation to a committee of faculty members. The prospectus must be defended in an oral examination. The student receives the Ph. D. once the dissertation is completed and defended.

Additional requirements are described in the Department's Guide to Graduate Study.

### Master of Public Administration Degree Requirements

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#### Prerequisites

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- Economics – Micro or Macro (3 hrs)
- Political Science or American Government (3 hrs)
- Unmet prerequisites should be made up early in the program.

#### Overview

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- 42 total hours needed to complete the degree (excluding deficiencies or prerequisites)
- 27 hours of required courses
- 9 hours of electives
- 6 hours of thesis research and a thesis, or 6 hours of capstone courses and a final project. All masters students must include at least 15 hours of courses numbered 6000 or above in their programs of study.

#### Required Courses

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- PADM 6001 Research Methods in Public Administration  
PADM 6010 The Profession of Public Administration  
PADM 6020 Bureaucracy and Democracy

PADM 6110 Public Budgeting  
PADM 6160 Law and Ethics in Public Administration  
PADM 6401 Administrative Behavior  
PADM 6180 Human Resource Administration in the Public Sector  
PADM 6410 Technology in Public Organizations  
PADM 6201 Policy Analysis and Program Evaluation

### Thesis/Final Project Option

Students must choose either the thesis or the final project option

**Thesis Option:** PADM 7000 Thesis Research (6 hours) plus the thesis. Thesis students may take Capstone I in lieu of three hours of thesis research.

**Final Project Option:** This is an applied project completed in conjunction with a public service job or internship while enrolled in PADM 6901 and 6902, MPA Capstone I & II (3 hrs each).

### Nonprofit Leadership Concentration

The MPA program offers a concentration in nonprofit leadership (NPL). The concentration consists of 15 hours: NPL students must complete the following courses which are currently offered under the Special Topics course PADM 4800:

PADM 4800 Legal & Ethical Issues in the Nonprofit Sector  
PADM 4800 Financial Administration & Development  
PADM 4800 Overview of the Nonprofit Sector  
PADM 4800 Collaboration, Partnership & Coalitions Building  
PADM 4800 Nonprofit Leadership (Leadership and Courage)

NPL students must also choose the thesis or non-thesis (final project) option. Thesis students may take PADM 6901 MPA Capstone I (3 hours) and PADM 7000 Thesis Research (3 hours).

### Financial Aid

Assistantships for 9 and 12 months may be available for a limited number of qualified applicants.

### Changes

Students should check with the Department of Political Science about any revisions approved for the program, but which may not be reflected in this catalog.

## Romance Languages

### Master of Arts Program

The Master of Arts in Romance Languages (French or Spanish Option) offers the student a concentration in one of two areas: language/culture/civilization or literature. The program both prepares students for further graduate study leading to the degree of Doctor of Philosophy and provides training for teachers of French or Spanish in secondary schools and colleges. It also offers the opportunity for rigorous advanced study in the humanities to qualified persons for nonacademic professions.

### Admission

To be admitted to graduate studies in Romance Languages, a student must present an undergraduate record which indicates a high standard of achievement, normally with an overall B average. In addition, the Foreign Language Department will review the Graduate Record Examination scores and letters of recommendation. The Department of Foreign Languages may grant full or conditional admission. Students admitted on a conditional basis must fulfill the conditions imposed by the department in addition to the regular requirements for the degree. Students with the bachelor's degree in fields other than French or Spanish may be admitted on this conditional basis and allowed to make up deficiencies.

## Master of Arts in Romance Languages Degree Requirements

### A. Language/Culture/Civilization

1. 33 credits in course work with at least 15 in courses numbered over 6000 or 30 credits in course work with at least 15 in courses numbered over 6000, including up to 6 credits in thesis research.
2. A "B" average in all courses.
3. Satisfactory performance on a comprehensive examination (written and oral) which will test the student in three areas of linguistics/civilization and in one period of literature (areas and a period which he/she may select from those indicated in the Reading List for the M.A. comprehensive exam).
4. Reading knowledge at the 2002 proficiency level of a second Romance Language (French, Spanish, Portuguese and Italian) or Latin.

### B. Literature

1. 30 credits in course work with at least 15 in courses numbered over 6000, including up to 6 credits in thesis research or 33 credits in coursework with at least 15 in courses numbered over 6000.
2. A "B" average in all courses.
3. Satisfactory performance on a comprehensive examination (written and oral) which will test the student in three periods of literature and one area of linguistics/civilization (periods and an area which he/she may select from those indicated in the Reading List for the M.A. in comprehensive exam).
4. Reading knowledge at the 2002 proficiency level of a second Romance Language (French, Spanish, Portuguese and Italian) or Latin.
5. All students admitted to the graduate program will be referred to the Departmental Coordinators of Graduate Studies, who will guide each student in selecting and following a sound program of study suited to needs and level of preparation. This program may, in individual cases, involve more course work than is specified in the general requirements for the degree. For purposes of clarification, it should be understood that the descriptions of 6000-level courses in the pages below are only categorical and that narrowed topics are always chosen for study within these broad categories.

The comprehensive examination is designed to test the candidate's knowledge of the language/culture/civilization or of the literature of his/her chosen field of study. The examination may be taken only after the candidate has passed the reading knowledge examination in a foreign language other than the major language area and has completed all of the course work. Ordinarily, the examination will be devoted to course work undertaken for the master's degree.

The thesis is written under the supervision of an advisor assigned to the student by the Coordinators of Graduate Studies in Romance Languages. Credit for Romance Languages 7000 (Thesis Research) is granted only after the thesis has been approved by a committee appointed by the Dean of the Graduate School and after the candidate has passed a one-hour oral examination on the thesis administered by this committee.

### Financial Aid

Assistantships in the Department of Foreign Languages are available for a limited number of qualified applicants each year. Requests for application forms and for additional information should be addressed to the Coordinator of Graduate Studies in Romance Languages.

## Sociology

The Master of Arts degree in Sociology provides advanced training for students and serves the employment needs of the larger New Orleans community. The dual mission of the program prepares

students to pursue doctoral work in sociology and/or assists students in furthering their career goals through developing and upgrading research and analytical skills. The department offers a comprehensive program in sociology with special concentrations in the sociology of gender and environmental sociology.

#### **Admission**

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Admissions criteria include a good undergraduate record, three letters of recommendation, and satisfactory scores on the Graduate Record Examination. Students must submit applications to the Department of Sociology. Students may also apply for graduate assistant positions. Students having the bachelor's degree in fields other than Sociology may be admitted, but are typically required to take an undergraduate theory course for which they receive graduate credit.

#### **Master of Arts in Sociology Degree Requirements**

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M.A. students in Sociology may pursue a traditional thesis option, an applied sociology option, or a non-thesis option.

Students who pursue the thesis option must complete a minimum of 30 hours of course work at the graduate level, which includes a core of required courses and electives. They must prepare a thesis and pass an oral examination covering the thesis topic.

Students who pursue the non-thesis option must complete 36 hours of course work, including a required course in qualitative methods.

Students selecting the applied sociology option must complete 30 hours of credit, write a research report based on two semesters of work in a public or private organization and pass an oral examination covering the completed report.

#### **Financial Aid**

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Teaching and research assistantships are available to qualified applicants each academic year, with a maximum appointment of two years.

### **GRADUATE PROGRAMS IN SCIENCES**

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#### **Doctor of Philosophy in Engineering and Applied Science**

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The Doctor of Philosophy in Engineering and Applied Science is an interdisciplinary, integrative degree involving faculty from the College of Engineering and the College of Sciences. The program is particularly suited to the emerging trends in the scientific and engineering communities.

#### **Admissions**

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Admission to the doctoral program is based on reasonable evidence that the applicant will prove capable of scholarly research on a broad intellectual foundation. All students enrolling in the program must have a Master's degree from an accredited college or university in engineering, physics, mathematics, earth and environmental sciences, computer science, or a closely related field, or be willing to complete coursework required in an existing Master's program in one of the participating departments at UNO while pursuing the Ph.D. Admission decisions will be based primarily on grade-point average, Graduate Record Examination scores, and letters of recommendation. Foreign applicants (non-English speaking countries) must also have a satisfactory TOEFL score.

#### **Doctor of Philosophy in Engineering and Applied Science Degree Requirements**

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Students enrolled in the program must satisfy all general requirements of the UNO Graduate School. Following are the formal procedural requirements for students to receive the Ph.D. degree in Engineering and Applied Science. Ph.D. candidates must complete a minimum of 51 semester credit hours of graduate course work in an

approved program beyond the Bachelor's degree, not including dissertation writing. The credit hours may include up to 30 semester hour credits obtained in a Master's degree program, if the area of the Master's degree is relevant to the doctoral program. Up to six of these 30 credits may be for thesis research. In addition, a doctoral dissertation based on the results of original research under the guidance of a faculty committee and defended in a public examination is required for the doctoral program. At least 30 semester hours of dissertation credit must be earned.

Departments participating in the program are Civil and Environmental Engineering, Electrical Engineering, Naval Architecture and Marine Engineering, Computer Science, Earth and Environmental Sciences, Mathematics, and Physics. The student's dissertation advisory committee will consist of at least five members. No more than three can be from any one department. There must be at least one committee member from each of the colleges of Engineering and Sciences. Program qualification is administered by the department of the principal advisor(s). It is based on material in a typical departmentalized master's degree program, or equivalent. Courses are chosen with the consent of the dissertation advisory committee. The committee shall consider the interdisciplinary nature of the program when they approve the courses. A minimum of nine credits (three courses) must be taken in each college. A General (comprehensive) Examination will be administered by the dissertation advisory committee. The examination will be based on material in the student's program of study. After passing the General Examination, the Ph.D. student is expected to write a dissertation prospectus and defend it before the dissertation advisory committee. After a successful defense and committee approval of the prospectus, the student may pursue research leading to the dissertation. The dissertation should reflect the interdisciplinary nature of the program. There must be a final public defense of the dissertation administered by the dissertation advisory committee.

#### **Financial Aid**

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Teaching and research assistantships are available to qualified graduate students on a competitive basis.

### **Programs in Biological Sciences**

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#### **Program of Study**

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The Department of Biological Sciences offers a Doctoral Degree in Conservation Biology and a Master of Science in Biological Sciences. Both degrees feature an integrated program of course work and independent research. The Doctoral program provides students with a broad knowledge of current issues in Conservation Biology, with opportunities for specialized research training in various disciplines (e.g. genetics, systematics, ecology) related to the conservation of biodiversity. In the MS program, there are three options available to suit student interests: general biological sciences; biotechnology emphasis; and biomedical emphasis. The latter two feature research opportunities at the U.S. Department of Agriculture Southern Regional Research Center or the LSU Health Sciences Center, respectively.

#### **Admission**

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Applicants are evaluated by the Department of Biological Sciences graduate committee. The committee will consider the student's previous academic record, Graduate Record Examination scores, and letters of recommendation. Acceptance usually requires a commitment from a faculty member to serve as temporary advisor for the first academic year. Entering students may be required to take undergraduate courses to correct deficiencies in basic areas of biology.

#### **Financial Aid**

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Financial support in the form of stipend and waiver of tuition may be provided to Ph.D. and M.S. students. There are commonly three

forms of financial support: teaching assistantships, research assistantships, and fellowships.

## Doctor of Philosophy in Conservation Biology

### Degree Requirements

Doctoral students are required to complete a minimum of 60 semester hours beyond the baccalaureate degree. Specific courses will be selected in consultation with the advisory committee and will depend on the research objectives and level of the student's preparedness for those objectives. A minimum of 18 credit hours of course work must be at the 6000 level.

The following courses or appropriate substitutions are required:

1. Biological Sciences 6022, Scientific Communication (2 credit hours).
2. A minimum of two 6000-level graduate lecture courses in biological sciences (6 credit hours).
3. A minimum of one two-unit graduate seminar course (2 credit hours).
4. One course in statistics course taken at the graduate level (3 credit hours).
5. Demonstrated proficiency in a foreign language.\*
6. Students must maintain a cumulative GPA of 3.0 in graduate coursework. Courses with the grade of C may not be applied toward the degree requirements.

\* In case where a foreign language is not appropriate for a student's research goals, a course providing more appropriate skills such as a computer language course may be substituted with the approval of the student's advisory committee.

Up to 12 hours of graduate-level credit taken previous to admission into the Ph.D. program may be applied towards the minimum of 60 hours required for the doctoral degree. However, only six of these hours can be applied to reduce the requirement for 18 hours of 6000-level courses. Any transfer of credits is subject to approval by the student's advisory committee and the graduate coordinator.

Typically, the above requirements should be satisfied during the first two years of study. In addition, after successfully passing the General Examination (see below), students are required to take a minimum of 12 credit hours of Biological Sciences 7050, Dissertation Research.

### Advisory Committee

Each Ph.D. student has an advisory committee that directs the coursework and research. Students are expected to select a faculty member from the Department of Biological Sciences to serve as chair of the advisory committee by the end of the first semester in the graduate program. By the end of the second semester, the advisory committee is expanded to a minimum of three members. The committee is enlarged from three to five members prior to the general examination (see below). Members of the advisory committee must be members of the graduate faculty, and at least half must be faculty in the Department of Biological Sciences.

### Qualifying Exam

Students in the Ph.D. Program must pass a qualifying exam prior to the end of their second year in the program. The purposes of the exam are to address deficiencies in the student's preparation and to identify the general area of dissertation research. Student's preparation in the biological sciences is assessed by the Biology Subject test of the Graduate Record Examination (GRE), which must be taken within one year following admission into the program (if not taken prior to admission). Students must score above the 50th percentile in two section tests and above the 75th percentile in one section test. Lower scores require that the student pass a course in the corresponding area

with a B or better. Courses addressing potential deficiencies should be completed prior to the qualifying exam. The exam also includes a brief prospectus of the student's plan for dissertation research. The format of the prospectus will be determined in consultation with the advisory committee.

### General Exam

Students in the Ph.D. program must pass a general exam prior to the end of their third year in the program. The general exam includes a written proposal for dissertation research, a public presentation, and a defense of the proposal to the student's advisory committee. The format of the proposal will be determined in consultation with the advisory committee. A student failing the general exam may retake the exam one time, as long as the three year time limit has not expired. Students not passing the general exam by the end of the third year are subject to removal from the Ph.D. program.

### Dissertation and Final Exam

A dissertation embodying original research in a specific area in conservation biology is a requirement for the Ph.D. The dissertation must be presented in a seminar open to the public, defended in an oral final examination, and approved by the student's advisory committee.

## Master of Science in Biological Science

Master of Science students must complete a minimum of 30 credit hours beyond the baccalaureate, which must conform to the following requirements:

1. A maximum of 6 credit hours of Thesis Research (BIOS 7000).
2. minimum of 6 credit hours of 6000-level lecture or lecture/laboratory courses.
3. A minimum of 4 credit hours of graduate seminar courses (which may include Scientific Communication, BIOS 6022).
4. The remaining 14 credit hours must be at the 4000G or 6000 level and may not include more than four credit hours of Biological Problems (BIOS 6090).
5. A minimum of 12 of the 24 non-thesis credit hours must be in the Department of Biological Sciences.
6. Students must maintain a cumulative GPA of 3.0 in graduate coursework, and a maximum of three credit hours of graduate coursework with the grade of C may be applied to the degree requirements.
7. Students in the biomedical emphasis must have a minimum of three credit hours of course work from the LSUMC School of Graduate Studies.

Up to 12 hours of graduate-level credit can be taken previous to admission into the M.S. program may be applied towards the 30 hours required for the M.S. degree. Any transfer of credits is subject to approval by the student's advisory committee and the graduate coordinator.

### Advisory Committee

Each M.S. student has an advisory committee that directs the coursework and research. In the first semester in the M.S. program, the student selects a faculty member from the Department of Biological Sciences to serve as chair of the advisory committee. By the end of the second semester, the advisory committee is expanded to a minimum of three members. Members of the advisory committee must be members of the graduate faculty, and at least half must be faculty in the Department of Biological Sciences.

### Thesis

The Master of Science degree program requires a thesis embodying original research in a specialized area. The thesis must be presented in a seminar open to the public, defended in an oral final examination, and approved by the student's advisory committee.

## Biomedical Sciences Concentration

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Based upon a collaborative agreement between the University of New Orleans and the Louisiana State University Medical Center School of Graduate Studies–New Orleans, graduate students interested in developing skills and expertise in research areas associated with biomedical applications may take courses and conduct research leading to the Master of Sciences degree with a Biomedical Sciences concentration. Students in good standing may enter the program with the approval of their major professor, their advisory committee, and in collaboration with a graduate faculty member at the LSUMC School of Graduate Studies. The faculty member at LSUMC School of Graduate Studies will become a member of the student's advisory committee. A minimum of three credit hours of courses will be taken at the LSUMC School of Graduate Studies. Thesis research may be done at either or both institutions.

## Chemistry

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### Programs in Chemistry

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The Department of Chemistry offers both Masters' and Doctoral programs. Both the M.S. and the Ph.D. are research degrees and require an original investigation by the student. Students may choose to pursue the Ph.D. degree directly from the baccalaureate degree, or after earning an M.S. degree.

### Admission

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Applicants to the Masters or Ph.D. programs are evaluated by the Department of chemistry Graduate Recruitment Committee. The committee will consider the student's previous academic record, previous research experience, Graduate Record Examination (GRE) scores, and letters of recommendation. Foreign applicants must also have a satisfactory TOEFL score. Written and oral competences in English are required.

### Financial Aid

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Teaching assistantships are available to qualified graduate students. Research assistantships supported by grant funds of individual faculty members are also available. Summer support is available in each type of assistantship. The amount paid is proportionately scaled to the academic year stipend.

### Master of Science in Chemistry Degree Requirements

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Upon entrance of the graduate program, each student will be given placement examinations covering undergraduate preparation in the major areas of chemistry. Results of these tests will provide a basis for selection of the courses to be pursued during the student's first year.

The minimum requirement for the degree of Master of Science is 18 credit hours of graduate course work. At least nine hours must be concentrated in one of the divisions of chemistry. In addition, a minimum of six hours must be taken across two other chemical divisions. With the approval of the student's thesis committee and the department chair, the additional three hours may be taken in graduate level non-chemistry courses. Also required for the Master' degree are nine hours of research/thesis (at the 7000 level), and three hours of credit in CHEM 6095 (Seminar) for a total of 30 semester hours. For graduate course work, the candidate must maintain an overall B (3.0) average, a B (3.0) average in the major area, and a 2.75 average outside of the major area. Each student is required to prepare and present one literature seminar, the subject of which is to be taken from the current research literature and is not to be directly related to the student's present or previous research. A formal abstract, prepared and distributed prior to the date of the seminar presentation, is required. Each student must present the seminar no later than the fourth semester in the program (excluding summer semesters).

Courses at the 4000-level can only be used for graduate credit with the approval of the student's thesis committee and the department chair.

For those who are working toward the Ph.D. but wish to earn a Master of Science degree, passing grades in three cumulative exams (see next section) are required in addition to the aforementioned 30 hours of credit. In place of the thesis, the department will substitute an article accepted for publication, describing a substantial piece of research done while enrolled in the Graduate School.

### Doctor of Philosophy in Chemistry Degree Requirements

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The requirements for the Ph.D. degree are as follows:

1. Placement examinations will be given to each student accepted for graduate work in chemistry in each of the major fields of chemistry. The student's graduate committee will consider the results of these examinations as well as the student's record in previous course work in determining the student's qualifications and placement in courses during the first year of study.
2. The minimum requirement for the Ph.D. degree is 18 credit hours of graduate course work. At least nine hours must be concentrated in one of the divisions of chemistry. In addition, a minimum of six hours must be taken across two other chemical divisions. With the approval of the student's thesis committee and the department chair, the additional three may be taken in graduate level non-chemistry courses. Required reading courses (CHEM 6090, 6091, 6092, and 6093, one hour each) are not counted as part of the 18 hours. Six credits in CHEM 6095 (seminar) and at least 32 research credits in research/dissertation (CHEM 7050) go toward completion of the 60-semester hour minimum. Courses at the 4000-level can only be used for graduate credit with the approval of the student's thesis committee and the department chair. For graduate course work, the candidate must maintain an overall B (3.0) average, a B (3.0) average in the major area, and a 2.75 average outside of the major area.
3. To become an applicant for the doctorate, a student must pass the qualifying exam. This exam is administered through a cumulative exam system in which the student must pass three separate examinations from a total of nine attempts. All cumulative examinations must be passed within a two-year period following entrance into the program. Exams are offered six times during each academic year.
4. Each student is required to prepare and present one literature seminar, the subject of which is to be taken from the current research literature and is not to be directly related to the student's present or previous research. A formal abstract, prepared and distributed prior to the date of the seminar presentation, is required. Each student must present the seminar no later than the fourth semester in the program (excluding summer semesters).
5. Before attaining full candidacy for the Ph.D. degree, a student must exhibit excellence, depth of understanding, and high professional attainment in the field by successful completion of the general examination for the doctorate. This examination takes place in the fifth semester of study, and consists of a written report and oral presentation to the thesis committee that summarizes the student's research accomplishments and future studies.

### Computer Science

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The Department of Computer Science offers a program of study leading to the degree of Master of Science. The program is designed to be flexible enough to accommodate the needs of two kinds of students: those who have recently completed an undergraduate degree in computer science and want to further their education, and those practicing professionals who want to acquire specific academic experience relevant to their work.

The department also participates in the Ph.D. in Engineering and Applied Science program. Interested students should refer to the beginning of this Graduate Programs in Sciences section for a description of the program, admission criteria, and curricular requirements.

### **Admission**

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After acceptance by the Graduate School, admission to the graduate program in computer science will be determined by the department on the basis of undergraduate academic record, three letters of recommendation, statement of purpose, and Graduate Record Examination scores. Admission to the program generally requires a composite score of least 1000 on the verbal and quantitative sections of the Graduate Record Examination; a mathematical background equivalent to Mathematics 2111, Mathematics 2112 and Mathematics 3721; and a computer science background including the equivalent of Computer Science 1583, Computer Science 2120, Computer Science 2125, Computer Science 2450, Computer Science 3301, and two upper-division courses. Students not meeting these requirements may be admitted to the program on a conditional basis, and must fulfill conditions imposed by the department in addition to the regular requirements for the degree. Students with bachelor's degrees in fields other than computer science may be admitted on a conditional basis.

### **Master of Science in Computer Science Degree Requirements**

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The department offers both thesis and non-thesis options in the master's program. All candidates for the master's degree must satisfy the following background, breadth, and depth requirements.

No course may be counted toward the satisfaction of more than one of these requirements.

1. Background requirement: the equivalent of Computer Sciences 4401 and 4501. Students who have not completed this requirement prior to enrollment are required to do so, for credit, as part of their curricula.
2. Breadth requirement: students must take one 6000-level course that counts toward the degree requirements (three semester hours) in each of three different concentration areas as listed below.
3. Depth requirement: students must take three additional courses that count toward the degree requirements (nine semester hours), of which at least two must be at the 6000-level. All courses must belong to the same concentration area (see list below). This concentration area must be different from the ones chosen to fulfill the breadth requirement.

The concentration areas, with specific sub-disciplines falling under each area, are given in the following table. A detailed list of courses included in each area can be obtained from the department.

#### **Theoretical Computer Science and Programming Languages**

- Computability
- Analysis of Algorithms and Complexity
- Formal Languages and Automata
- Combinatorics and Graph Theory
- Formal Semantics and Type Theory
- Logic
- Programming Languages
- Compiler Construction

#### **Systems and Network**

- Operating Systems
- Hardware Architecture
- Parallel and Distributed Systems
- Networks
- Protocols

#### **Software Systems**

- Algorithm Design

- Data Structures
- Programming Methodologies

#### **Software Engineering**

- Distributed Software Engineering
- Software Architectures
- Software Components

#### **Information Assurance**

- Defense of information and information systems by ensuring their availability, integrity, authentication, confidentiality, and non-repudiation.
- Cryptology
- Computer Security
- Information Protection
- Secure Information Exchange

#### **Database Systems and Distributed Applications**

- Data Modeling
- Database Systems and Distributed Database Systems
- Data Query Languages
- Programming and Architectures for the Web
- Spatial Database Systems
- Data Mining
- Mobile Computing

#### **Computer Graphics and Visual Computing**

- Computer Graphics
- Image Processing
- Data Visualization
- Visual Programming Languages
- Computational Geometry

#### **Artificial Intelligence**

- Robotics
- Computer Vision
- Pattern Recognition
- Evolutionary Computing
- Expert Systems
- Machine Learning
- Data Mining

All graduate students completing the master's degree must maintain a minimum of B grade in all 4000-level courses, and a minimum 3.0 average in all courses taken to satisfy the degree requirements excluding thesis research.

Students completing the master's degree with a thesis are required to submit an acceptable thesis and give a satisfactory defense of the thesis. Thirty semester hours are required, no more than six of which may be thesis credit. No more than nine hours may be at the 4000 level. Up to six hours may be taken in graduate courses outside of Computer Science upon prior approval by the department. Students choosing Information Assurance as their concentration must select the thesis option.

Students completing the master's degree without a thesis are required to give a satisfactory performance in a comprehensive examination covering course work. Thirty-six semester hours are required, no more than 12 of which may be at the 4000 level. Up to nine hours may be taken in approved graduate courses outside of Computer Science upon prior approval by the department.

All graduate assistants are required to participate in the weekly departmental seminar.

### **Earth and Environmental Sciences**

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The Department of Earth and Environmental Sciences (EES) offers a multi-disciplinary program of study a wide variety of research options that lead to the degree of Master of Science. The faculty teach about topics relevant to Louisiana's earth resources and environment, but also participate in internationally recognized research. The multi-disciplinary approach of EES better prepares graduates for a

professional setting where different scientists from diverse disciplines work together to achieve common objectives.

Admission criteria and curricular requirements are described below.

The Department also participates in the Ph.D. in Engineering and Applied Science program. As an interdisciplinary graduate degree program, the student will need to review the requirements for the Engineering and Applied Sciences Ph.D. which is administered jointly by the College of Sciences and the College of Engineering at UNO. The degree is administered through this program while dissertation research is conducted in EES.

### Admission

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Admission requirements for entering either the EES Master of Science or an EES-based Ph.D. in Engineering and Applied Science programs are: 1. an undergraduate GPA > 3.0; 2. completion of the GREs, with a minimum total score of 1000 (Verbal + Quantitative) being highly preferred; 3. submission of a letter of intent to EES; 4. submission of three letters of recommendation; and 4. identifying an EES Faculty member who will agree to be your advisor/mentor prior to being accepted into the Department. The minimum TOEFL scores needed for admission are 550 (paper) and 213 (computer; 80 for iBT).

### Financial Aid

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Both teaching and research assistantships are available through EES. Teaching assistantships are somewhat competitive with preference given to those qualified applicants with experience in teaching basic geology and/or environmental science laboratory courses. Graduate students (M.Sc. and Ph.D.) may also be supported by research assistantships provided by their advisor. Potential students are encouraged to discuss the possibilities with your advisor prior to applying. Finally, there are numerous scholarships available to EES graduate students through the Department and the University. See the respective websites for further detail.

## Master of Science in Earth and Environmental Sciences

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### Degree Requirements

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The minimum requirement for the degree of Master of Science (M.Sc.) in EES is 24 credit hours of course work and six hours of thesis research credit for a total of 30 credit hours. Nine of the 24 hours of coursework must be earned in courses numbered above 6000. Credit is not given for M.Sc. students in EES 4005, 4006, 6005, and 6006. Each graduate student is expected to participate in the weekly seminar, EES 6090. All Master of Science graduate students will be required to:

1. secure a thesis advisor from available EES graduate faculty prior to acceptance into the program;
2. form a thesis committee within his or her first semester consisting of at least three faculty members with graduate faculty status, two of which must be members of the EES faculty;
3. submit a prospectus or research work plan to the thesis committee within her or his first year
4. submit and publicly defend a thesis upon completion of course work and research.

### Mathematics

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The Department of Mathematics offers a program of study leading to the degree of Master of Science. The program is designed to provide a sound preparation for continued study toward a Ph.D. degree as well as prepare students for careers in business, government, industry, and teaching. The program provides courses for those interested in the modern applications of mathematics, the pure aspects of mathematics, or statistics.

The department also participates in the Ph.D. in Engineering and

Applied Science program. Interested students should refer to the beginning of this Graduate Programs in Sciences section for a description of the program, admission criteria, and curricular requirements.

### Admission

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Admission to graduate study in mathematics will be determined by the Graduate School and the Department of Mathematics. Mathematical maturity and sufficient knowledge for efficient and timely advancement in the graduate program are essential.

Students who wish to enter the graduate program should prepare themselves by successfully completing an undergraduate program that includes the equivalent of at least 18 semester hours of upper division mathematics courses. This undergraduate program should include the equivalent of these courses: Mathematics 3512, 4101, and 4102. Any student who has been admitted to graduate study in mathematics, but who has not completed the equivalent of these three courses, must complete the equivalent of these three courses as soon as possible. (Note: Graduate credit is not given for these three courses.)

### Financial Aid

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Graduate Assistantships are available to a limited number of qualified applicants. Students who would like to apply for a Graduate Assistantship should contact the Graduate Coordinator in the Mathematics Department.

## Master of Science in Mathematics

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### Degree Requirements

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The general regulations of the Graduate School, set forth elsewhere in this catalog, apply to the graduate program in mathematics. The departmental requirements for the Master of Science Degree are given below. The student must complete one of the following three sets of courses:

1. Mathematics 4221, 4224, 4251, 4411, 4511 4230 or 6251, 6211 or 6411, 6221 or 6224;
2. Mathematics 4411, 4511, 4611, 6450, and at least three of the following: 4213 4512, 4518, 4711, 4721, 6242, 6411, 6451, 6611;
3. Mathematics 4310, 6301, 6304, 6311, 6312, 6341, 6342.

These three different sets of courses represent the following three areas of mathematics:

1. applied mathematics,
2. pure mathematics,
3. statistics.

The student must complete at least 18 hours of 6000-level courses in the Mathematics Department. The student must obtain at least a 3.0 average in all 6000-level courses taken, excluding Thesis Research, whether or not the course is offered for degree requirements. The total number of semester hours required is 36. The student must give a satisfactory performance on a comprehensive examination that covers courses given for graduate credit. The student must complete at least two sequences of courses in the Mathematics Department, at least one of which must contain a 6000-level course. (A sequence is two courses which cover closely interrelated material; for example, 4221-6221 or 6450-6451.) The choice of sequences must be approved by the department.

The student is given the choice of whether or not to write a Master's Degree Thesis. Students who choose to write a thesis must give a satisfactory performance on an oral presentation of the thesis.

### Programs in Physics

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The Physics Department offers the MS degree in Applied Physics. The program is flexible enough to accommodate students planning on continuing graduate studies in applied physics, physics, or an

interdisciplinary field, as well as students intending to enter the work force.

The department currently has strong research programs in theoretical and computational aspects of acoustics, geophysics, electromagnetics, continuum mechanics, and astrophysics. Excellent experimental research activities are being conducted in condensed matter and materials physics, magnetism, spintronics, surface physics, and observational astronomy.

The department also participates in the Ph.D. in Engineering and Applied Science program. Interested students should refer to the beginning of this Graduate Programs in Sciences section for a description of the program, admission criteria, and curricular requirements.

### Admission

The student should have successfully completed a baccalaureate degree program at a university or college approved by a recognized accrediting agency. The student's record should indicate a high level of performance and promise, particularly in the field of physics.

After the student has sent the Graduate School application to the Admissions Office, admission to graduate study in physics will be determined by the Department of Physics on the basis of the student's previous academic record, scores on the general portion of the Graduate Record Examination, and (for financial assistance) letters of recommendation. Requirements for admission without deficiencies are general chemistry, mathematics through differential equations, and satisfactory coursework in the major areas of classical physics.

### Financial Aid

Teaching assistantships are available to a limited number of qualified applicants. Research assistantships and fellowships supported by grant funds of individual faculty members are also available.

### Master of Science in Applied Physics Degree Requirements

The Department of Physics offers a Master of Science in Applied Physics degree. It is a degree program which has significant flexibility. It is open to students with undergraduate degrees in fields related to physics as well as those with physics degrees. It offers sufficient versatility in its requirements to allow students to prepare for a variety of career paths. Prospective students are urged to contact the Department to learn more.

Entering students can choose to follow a targeted applied physics emphasis or a traditional applied physics emphasis for their degree. Students who choose a targeted emphasis are those preparing for a career which targets specific areas of applied physics such as materials science, optics, acoustics, or geophysics, and those planning to work in interdisciplinary areas such as computational physics (scientific computing), biophysics, chemical physics, physical oceanography, or engineering physics. This emphasis selection provides excellent preparation for interdisciplinary doctoral studies. Entering students choosing this emphasis are not necessarily expected to have completed all the courses that an undergraduate physics major takes, but they should have a good grounding in classical physics or be willing to make up deficiencies. Additional classical physics courses are expected to form part of the degree program. The student may choose to do twenty-four hours of coursework and a thesis, or thirty-three hours of coursework and no thesis. The graduate work must include at least 18 hours of physics (including thesis if a thesis is done) and 9 hours in a specialty area (which may be applied physics). At least 18 hours of work must be at a level of 6000 or above. The program of study must be approved by the student's Master's committee or the Department Graduate Advisory Committee.

The traditional emphasis is for those preparing for a career in which basic physics plays a central role, including those aspiring to employment heavily dependent on physics and those planning to continue into a Ph.D. program in applied physics or in physics. Except in limited unusual circumstances, the student is expected to do a thesis and twenty-four hours of course work. Of the 24 credit hours

of coursework students selecting this emphasis are expected to take a minimum of 18 hours in physics of which at least 12 are taken in courses numbered above 6000. The program of study must be approved by the student's Master's committee or the Department Graduate Advisory Committee.

Each graduate student is expected to participate in the weekly seminar, Physics 6198. (A maximum of one hour credit in Physics 6198 may be used to satisfy program requirements.) After coursework is substantially complete, the candidate will be required to take a comprehensive examination. In the case of students who elect to do a thesis, the comprehensive examination will be an oral one in which the questions will be primarily on the thesis and related matters. Both emphasis choices offer excellent preparation for the interdisciplinary UNO Ph.D. program in Engineering and Applied Science, of which Physics is a strong participating department.

### Programs in Psychology

#### Admission

An applicant is accepted for graduate work in psychology upon recommendation by the department and subsequent admission to the Graduate School. The department's recommendation for admission is based on the student's performance on the Graduate Record Examination, letters of recommendation, and on the student's academic performance. The department may recommend full or conditional admission. If admitted on a conditional basis, the applicant must fulfill the conditions imposed by the department.

#### Programs Offered

The department offers a Master of Science degree in Psychology and a Doctor of Philosophy degree in Psychology with specializations in Applied Biopsychology and Applied Developmental Psychology. The curriculum integrates coursework in basic psychology with research and practicum experience in applied psychology.

Students are expected to:

1. develop competence in one of the two major content areas of behavioral science represented in the department (e.g. biological and developmental psychology),
2. conduct research based theoretically in the student's major content area but focused on the application of behavioral science, and
3. develop a core of skills in the delivery of psychological and consultative services and gain experience in the roles of the behavioral scientist in medical, biomedical and/or applied-developmental settings.

#### Financial Aid

A limited number of teaching assistantships are available to qualified students. Research and service assistantships supported by faculty grants or contracts are also available.

### Master of Science in Psychology Degree Requirements

All students must complete requirements for the M.S. degree while working on the Ph.D. requirements. A minimum of 40 credit hours is necessary for the M.S. degree, although some students may be required to take additional hours to remedy undergraduate training deficiencies or in order to meet particular career goals.

1. General Core: Core courses are required for all graduate students. They include Psych. 6311, 6312, 6050, 6091 (four credit hours), 6350, and 6550.
2. Specialty Core: In addition, each specialty recognized by the department has designated additional courses as core to their programs. All applied developmental students must take Psychology 6101, 6102, and 6610. All applied biopsychology students must take Psychology 6801, 6802, and 6810.

3. Research Courses: All students must register for research, Psychology 6090, each semester (excluding summer) they are not registered for thesis credit. A minimum of six hours of credit for Psychology 6090 is required.
4. Minimum Grades: A student who receives a C or lower in a core course (general or specialty) or who drops a core course while earning lower than a B will be dropped from the program. If a student receives a C or less in a non-core course, that course must be repeated in order to earn graduate credit. All students must maintain a B average for all courses in order to remain in the psychology graduate program.
5. Thesis: Every student is required to complete a thesis based on her or his own original research that clearly demonstrates ability to identify significant problems, design and conduct scientific studies, and report findings in an appropriate fashion. The thesis research must be of publishable quality. A minimum of six credit hours of thesis research, Psychology 7000, is required, although the student must be registered for thesis research each semester he or she is working on it until it is accepted by the thesis committee. An oral defense of the thesis is required.
6. Comprehensive Examination: Every student must pass a Comprehensive Examination after completing the first year core courses.

### Doctor of Philosophy in Psychology Degree Requirements

After completion of the masters' requirements, students must pass a Qualifying Examination in order to continue to work toward a doctoral degree. During the entire period of work toward the doctorate, a student's program of study is guided by a doctoral advisory committee. The full advisory committee consists of the major professor who acts as chairperson, one or more representatives of at least one minor field outside, and at least three other graduate faculty members of the department. At least two members (including the chairperson) must be full-time members of the department, and at least one member must be a full member of the UNO graduate faculty. The committee is nominated by the chair of the department and is appointed by the Dean of the College.

The student's doctoral program of study must meet the following standards, which includes a minimum of 51 credit hours beyond those required by the M.S. degree.

1. Doctoral Core Courses: Applied Biopsychology students must take at least two (six hours) of the following courses: Psychology 6820, 6830, 6840, and 6895. Applied developmental students must take Psychology 6195, 6620, and 6801. The advanced seminar, Psychology 6195, must focus on advanced methods in developmental research.
2. Electives: Developmental students are required to take six hours of elective coursework and Biopsychology students are required to take nine hours of elective coursework. The electives must be chosen from content courses; research and practicum beyond the minimum cannot be used as electives.
3. Research: In addition to the dissertation requirements outlined below, all students are required to take six hours of independent research, Psychology 6090. Also, students must register for at least three hours of research credit every semester they are not registered for dissertation hours (excluding summers).
4. Teaching: Three hours of Teaching of Psychology, Psychology 7010, are required of all students.
5. Practicum: Twelve hours of practicum are required for all students (Psychology 6191 or 6891). The purpose of the practicum is to give students first-hand experience in an applied setting. The emphasis is on the application of experimentally-derived principles within the context of a service-delivery system. The practicum experience is arranged to provide an opportunity for students to begin to develop and practice a variety of skills in their areas of specialization.
6. Minor: The department requires that all doctoral students designate a specific minor area of study and to designate a faculty member to serve as the student's minor advisor. The minor advisor must serve on the student's Doctoral Advisory Committee. The intent of the minor requirement is to have the student outline a clearly delineated area of training that enhances the student's ability to find employment after receipt of the doctoral degree. Therefore, the choice of minor area is dependent on the student's specific career objectives. The minor will require 9 hours of graduate course credit. Three hours of the required nine for the minor may also be used as a general elective. Three hours of practicum can be used toward the minor requirement, if this is approved by the student's minor advisor and Doctoral Advisory Committee.
7. Social Basis of Behavior: All students must satisfy a requirement of three credit hours or the equivalent in the area of social bases of behavior. This requirement may be satisfied by (1) coursework, such as Psychology 6400 Social Psychology, Psychology 6170 Socioemotional Development, or a directed readings course in social bases of behavior taken under Psychology 6090; or (2) demonstrating competence in social bases of behavior as part of the Ph.D. qualifying examination. If coursework is selected to satisfy the requirement, the credit hours earned may be considered part of the required six elective hours (unless the course is used to satisfy other requirements).
8. General Examination: All students must pass a General Examination which is administered when the student's coursework is substantially completed. The General Examination consists of the student writing and orally defending a literature review of the research area relevant to the proposed dissertation topic. The literature review and defense must demonstrate competence in the student's minor and applied areas. The exam will be conducted by the student's Doctoral Advisory Committee.
9. Dissertation and Final Defense: All students must complete a dissertation and register for a minimum of six hours of Psychology 7050. The student must be registered for dissertation research each semester he or she is working on it until the final examination is passed. The dissertation must demonstrate a mastery of research techniques, ability to do original and independent research, and skill in formulating conclusions that in some way enlarge upon or modify the existing knowledge base in psychology. The final examination is the oral defense of the dissertation. The final examination committee is appointed by the dean of the Graduate School. In most cases it will consist of the student's doctoral advisory committee, although the dean may add additional members.
10. Internship: A student may elect to take an internship and the student must be registered for Psychology 7191 or 7891 throughout the internship (minimum of six hours). It must involve the equivalent of 12 months of supervised full-time experience. It must be supervised by a licensed psychologist. To qualify as an internship, a minimum of 1,500 hours at the site must be completed within 24 months and it must be approved by the department. The internship is an intensive, advanced, supervised experience required to be a practicing psychologist. To be eligible for an internship, the student must have completed all coursework and passed the General Examination. Only the dissertation may remain.
11. Minimum Grades: A student who earns a C or lower in a core (either general or specialty) or who drops a core course while earning lower than a B will be dropped from the program. If a student receives a C or less in a non-core course, that course must be repeated in order to earn graduate credit. All students must maintain at least a B average in all courses in order to remain in the psychology graduate program.

12. Additional Reasons for Dismissal: A student is expected to make normal progress toward the degree to remain in the program and must be registered as a full-time student each semester in the program. A student may be dropped from the program if, in a semi-annual evaluation, the faculty determines that the student does not meet the standards of a Ph.D. candidate.

## **GRADUATE PROGRAMS IN THE SCHOOL OF URBAN PLANNING AND REGIONAL STUDIES**

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The School of Urban Planning and Regional Studies (SUPRS) is a unit of the College of Liberal Arts. The School offers four graduate degrees: Master of Science in Urban Studies (MSUS); Master of Urban and Regional Planning (MURP); Master of Public Administration (MPA); and Doctor of Philosophy in Urban Studies.

### **Master of Science in Urban Studies, Master of Urban and Regional Planning, Doctor of Philosophy in Urban Studies**

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The MSUS program is interdisciplinary and offers training in a broad range of urban phenomena for persons who desire to enter such fields as law, journalism, education, law enforcement and business, or to further their study of cities and regions at the doctoral level. The MURP program is fully accredited by the American Planning Association (APA) and consists of professional training in planning cities and regions with special emphasis on the social, economic, environmental, political and physical aspects of metropolitan areas. The objective of the program is to prepare students for planning careers in city, regional, state and federal agencies; private consulting firms; public service organizations; and other public or private institutions. The program of study leading to the Doctor of Philosophy in Urban Studies enables students of exceptional ability to undertake advanced study and original research in the fields of urban affairs, urban history and urban and regional planning. The doctoral program's mission is to prepare students for careers in scholarly activity, applied research, and policy analysis.

#### **Admission for MSUS and MURP Programs**

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The Department of Planning and Urban Studies faculty has instituted admission requirements for entrance into the MSUS and MURP programs in addition to those of the Graduate School, which include above average academic competence as evidenced in undergraduate work and Graduate Record Examination (GRE) scores. The Department of Planning and Urban Studies faculty will also take relevant experience into account, although it is not a specific requirement for application. Upon review of an applicant's credentials, the Department of Planning and Urban Studies may grant full or conditional admission to the MSUS or MURP program. If admission is conditional, the student may have to complete additional courses of study in addition to those for the desired program.

#### **Non-Degree Seeking Students**

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Persons who are interested in taking courses offered by the Department of Planning and Urban Studies, but not seeking a degree, are encouraged to enroll as a "special student" (undergraduate) or as a "non-degree seeking student" (graduate). Consult the appropriate catalog or contact the department office for assistance.

#### **Admission for Doctor of Philosophy in Urban Studies**

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The Ph.D. in Urban Studies program provides graduates with a solid foundation to conduct applied research and policy analysis outside of academic settings and for teaching and research in colleges and universities. The program emphasizes mastery of the literature and theory in a particular area of scholarship and mastery of research skills necessary to make significant original contributions to that

field. The Ph.D. in Urban Studies program assists the department in its professional public service mission by providing high quality applied research and policy analysis for state, metropolitan, and local agencies and organizations. The doctoral program in urban studies draws upon the strengths of the University, particularly the departments within the College of Liberal Arts.

All students enrolling in the program must have a bachelor's degree from an accredited college or university. Preference is given to those who have completed a master's degree before entering the program. Admission decisions are based primarily on undergraduate/graduate grade-point average (GPA), Graduate Record Examination (GRE) scores, and letters of recommendation. Preferred levels of performance are a 3.0 or higher undergraduate GPA, a 3.0 or higher graduate GPA, scores of at least 550 for the verbal and quantitative section of the GRE and a minimum of 5.0 on the written portion of the GRE.

### **Doctor of Philosophy in Urban Studies Degree Requirements**

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A student admitted to the program must complete a minimum of 72 hours beyond the bachelor's degree. A post-master's student will be able to transfer to the Program a maximum of 24 credit hours of course work with a grade of B or higher. Thus, a student must complete at least 48 hours of course work with a grade of B or higher while enrolled in the doctoral program at UNO. Also, up to 9 credit hours earned after receiving a master's degree may be transferred into the program. The courses proposed for transfer must be approved as part of the student's program of study within the college. These hours will include a core curriculum, a major and a minor field of specialization, and a dissertation.

Fields of specialization include

1. urban affairs,
2. urban history, and
3. urban and regional planning.

#### **Overview**

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72 credit hours beyond the baccalaureate degree including 66 credit hours in the following four areas:

- Urban Studies Core (12 credit hours)
- Research Design (6 credit hours)
- Research Methods (9 or more credit hours)
- Research Competence (6 credit hours)

### **Major and Minor Fields of Study/Area of Specialization (42 credit hours)**

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Within the major field, students select a group of courses that provide a foundation in the theory and methods of that field of knowledge and a set of additional courses that constitute an area of specialization. Typically, foundation courses are completed as part of previous masters degree work and are transferred into the doctoral program. A student who does not have a masters degree in his or her major field should expect to take courses sufficient to demonstrate knowledge of the basic theory, concepts, and methods of that field.

Each student selects a group of courses that form an area of specialization within the major field of study. The department of planning and urban studies supports areas of specialization in land use and environmental management and policy, social and cultural change, and urban development. As a rough rule of thumb, students should expect to take at least 15 credit hours of courses in their area of specialization. These courses may be in the department of planning and urban studies or other departments of the University; they may be formal courses or independent studies.

The student defines his or her area of specialization in consultation with a faculty advisor. The courses must be mutually reinforcing and coherent; assure expertise in some body of knowledge, methods, or problem area; and provide the student with adequate skills and

knowledge to do dissertation research as well as policy research in the area of specialization: knowledge of the body of relevant theory (usually by taking courses in a social science, history, planning or public administration); knowledge of relevant methodology (e.g., planning methods, statistics, qualitative methods); an ability to apply theory and methods to specific problems; and an ability appropriate research design and research methods.

Students may, at their own option, define a minor field of study. Within the minor field, a student must complete at least 15 credit hours (some of which may be transfer credits) in a set of courses approved in advance by the student's advisor. Courses taken in the minor may constitute an independent body of knowledge, or they may support the area of specialization developed in the major.

Students should check with the department about any revisions approved for the program, but which may not be reflected in this catalog, or visit the department website at <http://www.planning.uno.edu>.

### **Master of Science in Urban Studies Degree Requirements**

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The flexibility of the MSUS program has allowed students to pursue career fields that are emerging and may not be covered in more structured and traditional masters programs. For example, there is a strong subfield of study in Anthropology that is offered in conjunction with the UNO Department of Anthropology. Other linked areas are Cultural and Ecotourism linked with the Kabacoff School of Hotel, Restaurant, Tourism and Cultural/Arts planning with the Arts Administration Program of the UNO College of Liberal Arts. Links to those programs can be found on the UNO Website.

#### **Overview**

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- 33 Total Hours
- 12-15 hours of required courses
- 15 hours of electives
- 3-6 hours of thesis

### **Master of Science in Urban Studies: Applied Urban Anthropology Concentration**

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Anthropology at UNO brings qualitative research methods and the insights of social theory to the study of the central questions in contemporary urban life. Students who choose to pursue the Urban Anthropology Track will work directly with faculty whose ongoing research projects are at the leading edge of urban research methodology.

Students in the applied urban anthropology track will receive training in qualitative research methodologies and will gain valuable fieldwork experiences. These may include cultural preservation management projects, historic archaeology, policy evaluation, folklore research projects and internships in local government and non-profit organizations. Students will draw on the university's technological resources (including film, museums and, of course, computers) to present their own research. Urban anthropology track students are encouraged to attend and participate in professional conferences, where they can learn directly about how to communicate their results as well as network with their future colleagues.

Students should check with the department about any revisions approved for the program, but which may not be reflected in this catalog, or visit the department website at <http://planning.uno.edu>

### **Master of Urban and Regional Planning**

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The Master in Urban and Regional Planning program prepares graduates for a wide range of careers in the field of planning. Planners can choose to work for governmental agencies, private consulting firms or nonprofit organizations. Their chosen career can target such issues as creating safe, attractive and healthy neighborhoods; providing affordable housing; and building accessible, efficient and environmentally friendly transportation systems. Students have the

opportunity to pursue internships for academic credit with selected agencies and private firms while they are in school. This "real world" experience helps students to become more competitive in the job market upon graduation.

All MURP students will be required to show proof of having completed at least an acceptable introductory-level statistics course and an introductory-level economics course before entering the program, or will be required to complete such a course during their first semester of attendance.

#### **Overview**

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- 45 total hours needed to complete the degree (excluding deficiencies or prerequisites)
- 18 credit hours of required courses
- 9 credit hours of courses in an area of specialization
- Either MURP 6720 Practicum in Urban and Regional Planning or MURP 7000 Thesis Research (3 credit hours)
- 15 credit hours of approved electives

Students should check with the department about any revisions approved for the program which may not be reflected in this catalog.

### **Master of Urban and Regional Planning: Areas of Specialization**

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#### **Program Specializations**

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Students have a choice of five areas of specialization within the program. Each specialization requires 9 credit hours of coursework. The five areas of specialization are Environmental/Hazards Planning, Historic Preservation, Housing and Community Economic Development, land Use/Urban Design and Transportation Planning. Students may complete coursework in 2 areas of specialization.

#### **Joint JD/ MURP Program**

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This program, unique in Louisiana, offers a combined planning degree and legal education through Loyola School of Law for those persons seeking a career in land use law and development. Applicants must apply separately and be admitted to the MURP program at UNO and to the Loyola School of Law. Normal degree requirements of each program are reduced by a common core of nine credit hours of approved elective courses that count toward both programs. The requirements for both degrees must be completed before either degree is awarded.

#### **Financial Aid**

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Assistantships for nine months are available for a limited number of qualified applicants. The student will devote approximately half-time (20 hrs/week) to research work. In addition, a number of assistantships are located off-campus in planning and planning related agencies.

# Courses of Instruction

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Courses offered during the academic year covered by this catalog will be selected from those described on the following pages. The course number is shown to the left of the title. The significance of the four digit numbering system is:

First digit

- 0 indicates that the course does not carry degree credit
- 1 courses of freshman level or beginning courses
- 2 sophomore level, not open to freshmen
- 3 junior-senior level courses, not open to freshmen or, generally, to sophomores
- 4 junior-senior level courses which may be taken for graduate credit under certain circumstances, not open to freshmen or sophomores
- 6 -graduate courses, open to students registered in the Graduate School only.

Departmental Permission is also required in each case.

Second digit

Many areas use the second digit to designate sub-areas within their areas. Otherwise the second digit has no significance.

Third digit

The third digit has no specific meaning except when it is the figure nine. A nine as the third digit means that the course content varies from semester to semester.

Fourth digit

The fourth digit has no specific significance unless it is the figure nine. A nine as the fourth digit indicates that the course is conducted on an honors level. A student with less than 60 semester hours credit may not register for courses numbered 3000 or above. In addition to regular course requirements, graduate students who enroll in 4000-level graduate credit courses will be expected to complete other work assigned by the instructor. Courses numbered 6000 or above are open to graduate students only and require permission of the department offering the course before a student may enroll. Shown on the same line with the title is the designation of the credit hours which the course carries. The credit hour value is generally based on the number of class hours per week. One hour of classroom work per week is usually valued at one credit hour. Some departments give one credit hour for two hours of laboratory work per week while some require three or more hours of laboratory work for one credit hour. Normally, if the course consists solely of lecture, or lecture-discussion type meetings, the number of meetings per week will be the same as the credit hours given for the course and no statement is made as to the type or number of meetings per week. In other situations the type and number of meetings is usually stated.

## Arts & Sciences

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- A&S 1100 French Culture and Civilization** 3 cr.  
A study of the political, social, and cultural institutions in France, with an emphasis on contemporary civilization.
- A&S 1110 Spanish Culture and Civilization** 3 cr.  
An introduction to the history, art, geography, social organization, and philosophers of Spain.
- A&S 1119 Structures of Western Thought: Ancient Greece** 3 cr.  
Prerequisite: concurrent registration in ENGL 1159 or 2279. A study of central features of ancient Greek culture: literature, philosophy, art, and science.
- A&S 2219 Biblical Foundations of Western Thought** 3 cr.  
The formation of biblical thought, stressing both the historical and cultural background which gave rise to the distinctively Biblical insights into the human condition and the reasons why these have had such lasting influence on Western society.
- A&S 2229 The Renaissance** 3 cr.  
Studies in different aspects of the renaissance(s) in Western Europe during the fourteenth, fifteenth, and sixteenth centuries.
- A&S 2310 Rise of the West: the Middle Ages** 3 cr.  
Study of the principal social and cultural events of the Middle Ages as contributions to the formation of Western Civilization.
- A&S 2410 Search for Order: Renaissance Reformation Enlightenment** 3 cr.  
Study of the principal social and cultural movements between 1300 and 1800.
- A&S 2429 Age of the Enlightenment** 3 cr.  
Studies in different aspects of the Eighteenth Century Enlightenment.
- A&S 2529 The Nineteenth Century** 3 cr.  
Studies in different aspects of the romantic and revolutionary movements of the nineteenth century.
- A&S 2899 Twentieth Century Issues** 3 cr.  
The topic varies from semester to semester. The course may be repeated once for credit.
- A&S 2900 European Civilization: Field-Based Learning** 3 cr.  
Students live and work in a European country, study the language, culture, and history of the country, and analyze the distinctive social practices to be found. Intensive and reflective interaction with the host population is stressed. May be repeated for credit

with consent of the Director of the Honors Program. Students should have previous experience with the language of the host country. This course is not to be used for independent study.

**A&S 2999 Forms of Inquiry** 1 cr.

Introduction to various disciplinary perspectives, the current problems, theoretical underpinnings, and methods of procedure that direct diverse forms of inquiry. Scholars from the various departments will display their fields of study while addressing a common theme. May be repeated for up to three credit hours.

**A&S 3099 The Honors Colloquium** 3 cr.

Prerequisites: junior or senior standing and recommendation of a professor or student's dean. The subject varies. Course may be repeated once for credit.

**A&S 3110 The End of the Past: Nineteenth Century** 3 cr.

Study of the principal social and cultural movements between the French Revolution and World War I.

**A&S 3595 Academic Year Abroad: European Perspectives of America** 3 cr.

A study of historical and current European views of American culture as presented in the creative arts, literature, and political writings, and scholarly analyses. This course is only offered through UNO's Academic Year Abroad (AYA) in Innsbruck, Austria and can be repeated once for credit.

**A&S 3599 Natural Science** 3 cr.

Prerequisites: Junior or senior standing and completion of a one-year course in physical science and one in biological sciences, at least one with laboratory. Selective problems illustrative of developing concepts of the natural and physical universe and of living organisms. Readings, discussions, papers.

**A&S 3999 Senior Honors Thesis** 3 cr.

Admission by consent of the Director of the Interdisciplinary Studies Degree Program and the Director of the University Honors Program. Directed research culminating in a written thesis to meet the requirements for graduation with University Honors or Honors in Interdisciplinary Studies. May be repeated once for a total of six hours credit.

## **Arts Administration**

**AADM 4502 Principles of Arts Administration Law** 3 cr.

An introduction to the concepts of contracts, copyright, agency, facilities liability and other legal principles which affect those who perform or create art and entertainment. Through lecture and readings, the student will learn how the world of culture and entertainment is affected by the law and how the law is affected by the arts. Not open to Arts Administration Graduate Students, and not for graduate credit.

**AADM 6090 Arts Administration Independent Study** 1 cr. min./3 cr. max.

Prerequisite: consent of department. Research in the graduate student's area of specialization, under the direction of a designated member of the graduate faculty. Credit is only applicable toward elective requirement.

**AADM 6246 Arts Technology Overview** 3 cr.

Prerequisite: consent of department. Introduces the student to computer uses for arts managers including data processing, marketing, fundraising, survey techniques and publishing. Concepts will be discussed as well as examples of industry-standard software.

**AADM 6501 Development Strategies for Arts Organizations** 3 cr.

Prerequisite: Consent of the program coordinator. A study of development and fund raising strategies and techniques for nonprofit arts organizations. Topics include financial management and

planning; federal, state, and local grants; foundation grants; corporate support; annual fund drives and special events; capital campaigns and deferred giving. Special problems and opportunities in development are explored through case studies and projects with local arts organizations.

**AADM 6502 Arts Administration: Legal and Business Applications** 3 cr.

Prerequisite: consent of program coordinator. The study of several areas of law and business as they apply to the administration of the artistic institution. The subjects covered include government regulations, contracts, taxes, and insurance. This seminar is designed to examine the management of art galleries, theaters, and concert halls with an application of these legal and business considerations. Limited internship or observation opportunity in an arts organization.

**AADM 6503 Marketing the Arts** 3 cr.

Prerequisite: consent of the program coordinator. Application of marketing techniques to nonprofit and commercial arts organizations and products. Topics include special principles in marketing the arts, the marketing audit and marketing plan, market research and target marketing, direct mail and telemarketing, and applications to both visual and performing arts organizations. Special problems in marketing are explored through case studies and projects with local arts organizations.

**AADM 6504 An Overview to the Field of Theatre Arts** 3 cr.

Prerequisite: consent of department. Survey of the business of the theater with emphasis on types of theater organizations, responsibilities of the producer, structure and duties within the organization, and problems associated with the management of a theater.

**AADM 6505 Visual Arts for Art Administrators** 3 cr.

Prerequisite: admission to the M.A. administration program or consent of department. An overview of the field of visual arts. This introduction to the visual arts will include the terminology and criteria for aesthetic evaluation, the materials and processes of painting, sculpture, graphic arts, and architecture, an historical survey, and consideration of management principles and practices appropriate to the visual arts. Lectures will be supplemented by visits to local galleries and museums. Intended as a distributive component in the M.A. administration program, this course may not be taken for graduate credit toward the M.F.A. in Fine Arts.

**AADM 6506 A Music Overview for Arts Administrators** 3 cr.

Prerequisite: consent of department. A survey of the music business with emphasis on the many aspects of the recording industry, live performing arts and the local music scene.

**AADM 6690 Arts Administration Special Topics** 1 cr. min./3 cr. max.

Prerequisite: consent of department. Specific areas of interest will be studied under the direction of a faculty member. Topics may vary from semester to semester. This course may be repeated, but total credit may not exceed six semester hours.

**AADM 6900 Practicum in Arts Administration** 1 cr. min./3 cr. max.

Prerequisite: consent of department. Supervised experience in various fields of Arts Administration. Amount of credit to be stated at the time of registration. May be repeated for a total of up to six hours.

**AADM 6990 Internship in Arts Administration** 6 cr.

Prerequisites: enrollment in the master's program in Arts Administration and satisfactory completion of comprehensive examination. A supervised program for students completing the degree in Arts Administration in which participants gain experience in most aspects of the management of an arts institution ranging

from ticket sales to contract negotiations. Objectives are set and evaluation is accomplished jointly by the program coordinator, the student, and the on-site supervisor. A research report on the internship is required.

**AADM 7040 Examination or Report Only No credit** 0 cr.  
Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

## Accounting

**ACCT 2100 Principles of Accounting** 3 cr.  
Offered each semester. Not open to students in remedial English or remedial mathematics. Not open to freshmen. An introduction to the accounting model and financial statement preparation with emphasis on the concepts and terminology needed to understand a typical corporate report. Topics covered include: current and long-term assets current and longterm liabilities, stockholders' equity, revenues and expenses.

**ACCT 2130 Management Accounting** 3 cr.  
Offered each semester. Prerequisite: ACCT 2100. Not open to freshmen. Not for credit toward a degree in Accounting. A study of the accounting process of the firm and its role in managerial planning, control, and decision-making; analysis and interpretation of financial statements.

**ACCT 3090 Internship in Accounting** 3 cr.  
Students will engage in at least ten hours per week at the site of an assigned participating organization that directs the interns in specific projects relating to their majors. Students wishing to take this course should apply during the semester prior to the internship. This course may be repeated for a total of six hours of credit, of which only three hours can apply toward a B.S. degree in Accounting. Pass/Fail grading.

**ACCT 3091 Internship in Accounting** 6 cr.  
Prerequisite: consent of department. Students will engage in work at the site of an assigned participating organization that directs the interns in specific projects relating to their majors. Students wishing to take this course should apply during the semester prior to the internship. Students working 30 hours or more per week may receive six hours credit in one semester, of which only three hours can apply toward a B.S. degree in Accounting. This course may not be repeated for credit. Students may not receive credit for both ACCT 3091 and ACCT 3090. Pass/Fail grading.

**ACCT 3120 Accounting Lab** 1 cr.  
Prerequisite: ACCT 2100 concurrent enrollment in or credit for BA 2780 and concurrent enrollment in or credit for ACCT 3121. Practical applications of the accounting cycle and internal controls using a practice case. The class meets for two hours once a week.

**ACCT 3121 Intermediate Accounting I** 3 cr.  
Offered each semester. Prerequisite: completion of ACCT 2100 with a grade of C or better. Not open to freshmen. A study of financial accounting with emphasis on the asset section of the balance sheet.

**ACCT 3122 Intermediate Accounting II** 3 cr.  
Offered each semester. Prerequisite: completion of ACCT 3121 with a grade of C or better. A study of financial accounting with emphasis on the liability and owner's equity sections of the balance sheet and the statement of cash flow.

**ACCT 3123 Advanced Financial Accounting** 3 cr.  
Offered each semester. Not open to freshmen. Prerequisite: Accounting 3122 with a grade of C or better and Accounting 3120. Financial accounting theory, concepts, methodology, and structure. Topics covered will include partnerships, business combinations, consolidations, and SEC reporting problems.

**ACCT 3124 Governmental Accounting** 3 cr.  
Offered each semester. Prerequisite: Completion of ACCT 3121 with a grade of C or better. Financial accounting theory, concepts, methodology, and structure. Topics covered, in addition to governmental accounting, include not-for-profit accounting, international accounting, estates and trusts, insolvency and troubled debt restructuring.

**ACCT 3131 Cost Accounting I** 3 cr.  
Offered each semester. Prerequisite: six hours of accounting. An introduction to the development and use of accounting information for internal business decisions. Topics include: cost terminology and classifications, methods of cost accumulation and analysis, budgets and standard costs, cost-volume-profit relationships, and other accounting fundamentals for production, marketing, and financing decisions.

**ACCT 3141 Accounting Information Systems** 3 cr.  
Offered each semester. Prerequisites: BA 2780 and three semester hours of accounting. Not open to freshmen. The integration of information flows of various segments of a business organization into an information system of the total organization, with emphasis on the accounting aspects of electronic data processing.

**ACCT 3152 Tax Accounting I** 3 cr.  
Offered each semester. Prerequisite: six hours of accounting. A comprehensive study of federal income tax concepts for the development of income and related deductions. The impact of tax considerations in business decisions.

**ACCT 3161 Auditing** 3 cr.  
Offered each semester. Prerequisites: ACCT 3122 with a grade of C or better or consent of department. Auditing ethics, standards, and procedures and their application by independent public accountants.

**ACCT 3191 Independent Study** 1 cr. min./3 cr. max.  
Offered each semester. Prerequisite: approval of the directed individual study by the department chair and the supervising professor is required prior to registration. The student should refer to the COLLEGE OF BUSINESS ADMINISTRATION POLICY ON UNDERGRADUATE DIRECTED INDIVIDUAL STUDY available in the Accounting Department. The course is arranged individually in order to provide latitude for specialized study and research under the direction of a faculty member. Progress reports, readings, conferences, and research paper are required. May be repeated for up to six hours credit.

**ACCT 3999 Senior Honors Thesis** 1 cr. min./6 cr. max.  
Offered each semester. This course is open to Honors Students only, with admission by approval of the Directors of the Honors Program in Accounting and the University Honors Program. The course may be repeated for credit for a total of six credit hours until a thesis is accepted following oral defense.

**ACCT 4126/G Survey of International Accounting** 3 cr.  
Prerequisite: ACCT 3122 or consent of department. An overview accounting in an international context and related issues. Topics covered include the international accounting environment, classification schemes, comparative accounting practice, accounting standards, foreign currency, reporting and disclosure, auditing and taxation. Credit will not be given for this course and for ACCT 6126.

- AACCT 4132/G Cost Accounting II** 3 cr.  
Prerequisite: ACCT 3131. Advanced work in the development and use of accounting information for internal business decisions. Topics include: structure of managerial accounting theory; cost classifications and methods of cost estimation; decision models; standards and control; accounting information for production, marketing, and financing decisions.
- ACCT 4142/G IT Auditing & Advanced Accounting Information Systems** 3 cr.  
Prerequisite: ACCT 3141 or equivalent. Information systems and accounting theory applied to advanced computerized information (information technology or IT) systems with emphasis on internal controls and auditing techniques.
- ACCT 4150/G Taxation for Business Decisions** 3 cr.  
Not open to all accounting majors. A survey of federal income taxes including the study of the development of taxable income and deductions for individuals, partnerships, and corporations with application to business decisions and tax planning. Credit will not be given for both ACCT 4150 and ACCT 4160.
- ACCT 4152/G Tax Accounting II** 3 cr.  
Offered each semester. Prerequisite: Accounting 3152. Research methods in taxation. Intensive treatment of tax problems of partnerships, corporations, and fiduciaries. Study of federal estate and gift taxes.
- ACCT 4153/G Individual Tax Planning** 3 cr.  
Prerequisite: Accounting 3152 or consent of department. Exploration of those areas most productive of tax saving opportunities for the individual. Timing of reporting income and deduction and the use of various tax-saving legal instruments will be covered.
- ACCT 4154/G Estate and Gift Taxation** 3 cr.  
Prerequisite: consent of department. ACCT 4152 recommended. Taxation of gratuitous transfers under the federal estate and gift tax code. Emphasis will be given to the community property laws of Louisiana as they influence gift and estate taxation.
- ACCT 4162/G Advanced Auditing** 3 cr.  
Prerequisite: ACCT 3161. Current auditing concepts and prospective developments in professional and internal auditing. Cases and readings used to illustrate applications of auditing standards, statistical sampling, professional ethics, and legal liability.
- ACCT 4167/G Internal Auditing** 3 cr.  
Prerequisite: ACCT 3122 (with a grade of C or better) and consent of department. A study of internal auditing ethics, standards, and concepts. Students should apply a semester in advance for consent of the department. Students taking this course for graduate credit must complete an additional course project. Credit will not be given for both ACCT 4167 and 6167.
- ACCT 4168/G Operational Auditing** 3 cr.  
Prerequisite: ACCT 3122 (with a grade of C or better) and consent of department. Operational, efficiency, and effectiveness audits, and relevant internal auditing standards. Cases and readings used to illustrate internal auditing standards and applications of internal audit practices. Students taking this course for graduate credit must complete an additional course project. Credit will not be given for both ACCT 4168 and 6168.
- ACCT 4171/G Survey of Governmental and Institutional Accounting** 3 cr.  
A study of internal budgeting and reporting systems, techniques of measurement and data collection, and preparation of financial statements for governmental bodies and non-profit organizations. A computer project, which entails the use of a spreadsheet, is required. Not open to accounting majors. For students with little or no previous work in accounting.
- ACCT 4180/G Oil and Gas Industry: Accounting Problems** 3 cr.  
Prerequisite: six hours of accounting or consent of department. A study of current reporting practices and problems associated with accounting in the oil and gas industry. A review of the industry reporting requirements to state agencies, federal agencies, economic interest holders from both the operator and nonoperator points of view, as well as general purpose financial statements.
- ACCT 4190/G Contemporary Accounting Topics** 3 cr.  
Prerequisite: consent of department. A study in depth of one or more subjects currently of concern in the field of accounting. May be repeated for credit when the topics vary. No more than six semester hours of credit will be allowed.
- ACCT 4195 Internship in Internal Auditing** 1 cr. min./3 cr. max.  
Prerequisite: Accounting 4167 and consent of department. (Pass/Fail) At least ten hours per week of learning experience under the general supervision of a faculty member and direct supervision of a professional internal audit manager or director. Students desiring to take this course should apply a semester in advance since enrollment is limited by the internships available. Pass/Fail grading is based on a written report by the professional supervisor, a written report by the student, and the faculty member's evaluation. Accounting majors cannot use this course as an accounting elective for degree credit. This course is not open for graduate credit. This course may be repeated for a total of three hours of credit.
- ACCT 4400 Survey of Financial Accounting** 3 cr.  
A user-oriented approach to the fundamentals of financial accounting. Emphasis will be placed on the interpretation of financial information and on the measurement of product costs as well as the consequences of business decisions. Not open to College of Business undergraduate majors or to graduate accounting students. This course may not be taken for graduate credit.
- ACCT 6125 Studies in Accounting Theory** 3 cr.  
Prerequisites: Accounting 2121 and 3122. A study of underlying concepts of financial accounting with application to problem areas. Critical analysis of current pronouncements on accounting postulates and principles.
- ACCT 6126 International Accounting** 3 cr.  
Prerequisite: Accounting 3122 or consent of department. Credit will not be given for both ACCT 4126 and ACCT 6126. The external and internal reporting problems associated with multinational business entities and other organizations. The objectives of the course are (1) to provide an overview of the international structures which have evolved in response to international accounting problems (2) to review the literature relating to these problems and (3) to develop the analytical capabilities necessary to deal with international accounting issues.
- ACCT 6130 Advanced Accounting Analysis for Decision Making** 3 cr.  
Offered each semester. Prerequisite: Accounting 4400 or 2100 and 2130. A study of the analysis of accounting and other data relating to alternative business possibilities as an aid to management decision making. Not open to students in the M.S. in Accounting program or students who have an undergraduate degree in accounting.
- ACCT 6131 Accounting in Health Care Settings** 3 cr.  
A survey of the financial and managerial accounting principles and procedures necessary to make strategic and operational decisions in a managed care environment. Topics include financial statement structure and analysis, cost accounting, budgeting, analysis of variances from budget, cost-volume-profit analysis, analysis of

- non-routine decisions, rate setting and current issues in accounting for health care. Not open to students in the M.S. in Accounting or the M.S. in Accounting-Taxation Option programs.
- ACCT 6132 Strategic Cost Management** 3 cr.  
Prerequisite: Accounting 3131 or 6130 or consent of department. An analytical and case approach to the study of the role of cost management information in the management of business and not-for-profit organizations. The use of cost management information is examined in strategic management, planning and decision making, management and operational control, and financial reporting.
- ACCT 6133 Studies in Managerial Accounting** 3 cr.  
Prerequisite: Accounting 3131 or 6130. Readings and research in accounting relative to internal management, including cost accumulation and control systems, decision systems, and contemporary issues in management accounting.
- ACCT 6143 Seminar in Accounting Information Systems** 3 cr.  
Prerequisites: Accounting 3141 or equivalent. To develop an understanding of the concepts of information systems, their design and operation, and to relate these concepts to the economic information requirements, information flows, decision criteria, and control mechanisms in the business organization.
- ACCT 6150 Tax Factors in Management Decisions** 3 cr.  
Prerequisite: consent of department. Credit will not be given for both ACCT 6150 and ACCT 4150. Tax consequences related to business decisions. Designed for students enrolled in the MBA program. Not open to students in the M.S. in Accounting program or students who have an undergraduate degree in accounting.
- ACCT 6151 Federal Tax Practice Procedure and Report Writing** 3 cr.  
Fall semester. Prerequisite: ACCT 3152 or consent of department. A course to acquaint the student with the organization of the Internal Revenue Service and its relation to practice, tax research techniques, and ethical tax practice.
- ACCT 6153 Taxation of Corporations and Shareholders** 3 cr.  
Fall semester. Prerequisite: ACCT 4152 or consent of department. ACCT 6151 is recommended. Analysis of the tax treatment, tax problems, and tax planning techniques involving transactions between corporations and their shareholders; transfers to a corporation; capital structure; dividends and preferred stock bailouts; and an introduction to corporate divisions and reorganizations.
- ACCT 6154 Advanced Taxation of Corporations and Shareholders** 3 cr.  
Prerequisite: ACCT 6153 or consent of department. Advanced analysis of corporate reorganizations and divisions; carryover of tax attributes; limitations; affiliated corporations; personal holding companies and collapsible corporations.
- ACCT 6155 Tax Problems of Employee Retirement Plans** 3 cr.  
Prerequisite: consent of department. Provides a working knowledge of the qualification and operating requirements of the various deferred compensation plans available under the current Internal Revenue Code.
- ACCT 6156 Advanced Taxation of Partners and Partnerships and Professional Corporations** 3 cr.  
Prerequisite: ACCT 4152 or consent of department. ACCT 6151 recommended. The study of the tax problems of service partnerships including such topics as dissolution of the partnership, sale of the partnership interest, and retirement provisions. The professional partnership will be compared with the professional corporation as to the advantages and disadvantages of each.
- ACCT 6157 Consolidated Tax Returns** 3 cr.  
Prerequisite: ACCT 6153 or consent of department. Federal income taxation of corporations filing consolidated returns. Emphasis will be given to the various provisions affecting the taxable income of the affiliated group of corporations including the treatment of various loss carryovers, credits, specially treated transactions, allocation of consolidated tax liability, earnings and profits, investment in affiliates, dividends, and disposition of stock of a subsidiary.
- ACCT 6158 Taxation of Property Transactions** 3 cr.  
Prerequisite: consent of department. Federal income taxation of property transactions including nontaxable exchanges, involuntary conversions, historic structures, equipment leasing, leasebacks, installment sales, tax shelters, and other related topics.
- ACCT 6159 International Taxation** 3 cr.  
Prerequisite: ACCT 3152 or consent of department. A study of the major topic areas in U.S. taxation of transnational transactions. Emphasis will be placed on the law affecting individuals and corporations. Some possible topics are the foreign tax credit, source of income rules, subpart F, intercompany pricing, foreign sales corporations, etc.
- ACCT 6163 Seminar in Auditing** 3 cr.  
Prerequisite: ACCT 3161. A study of advanced problems and current developments in auditing. Topics include auditing theory, practice, problems, ethics, legal environment, and other current topics.
- ACCT 6164 Ethical Issues in Accounting** 3 cr.  
Prerequisite: ACCT 6125 or consent of department. The study of major legal precedents and ethical issues facing the accounting profession utilizing case analyses.
- ACCT 6167 Internal Auditing Concepts** 3 cr.  
Prerequisites: ACCT 3122 (with a grade of C or better) and consent of department. A study of the concepts and standards of internal auditing with application to problem areas. Assigned project(s) will involve the use of critical analysis of internal auditing situations. Students should apply a semester in advance for consent of the department. Students cannot receive credit for both ACCT 4167 and 6167.
- ACCT 6168 Internal and Operational Auditing** 3 cr.  
Prerequisite: ACCT 3122 (with a grade of C or better) and consent of the department. Internal, operational auditing and internal auditing standards. Practical applications of internal auditing concepts through the use of readings, cases, and projects. Credit will not be given for both ACCT 4168 and 6168.
- ACCT 6169 Fraud Examination** 3 cr.  
Prerequisite: Accounting 2100 or 4400 or consent of department. An analytical and case approach to the study of how and why fraud is committed, how fraudulent conduct can be deterred, and how allegations of fraud should be investigated and resolved.
- ACCT 6171 Seminar in the Historical Development of Accounting** 3 cr.  
Prerequisite: consent of department. The study of the historical development of accounting, the stakeholders, and philosophies that shaped its past and present and will influence its future.
- ACCT 6172 Financial Control of Governmental and Other Not-for-Profit Organizations** 3 cr.  
Prerequisite: ACCT 2100 or 4400 or 4171 or consent of department. A study of the management control problems of governmental and not-for-profit organizations. Emphasis will be placed on the use of financial information for controlling the operations of governmental and nonprofit organizations. Topics include: 1) budgeting 2) pricing of services 3) measurement and evaluation of performance and 4) the basic design of an information system.

**ACCT 6173 State and Local Taxation** 3 cr.

Prerequisite: Consent of the department. An examination of the state taxation of multiple-state business entities, including income taxes, sales/use taxes and property taxes. One focus of the class will be the constitutional issue of the nexus and situs, as it applies to income and sales/use taxes. In addition, the apportionment and/or allocation of income between states, as well as the determination of taxable sales and the situs of property will be covered. The taxation of e-commerce will be an area of special concern.

**ACCT 6185 Strategic Business Planning** 3 cr.

Prerequisite: Fifteen hours of graduate Accounting classes or consent of the department. This course introduces future accounting professionals to the managerial/organizational decisions in which they may be expected to be involved. It will highlight the impact of taxes and accounting on all aspects of the corporation, from formation to liquidation. The course will be case-driven with examples taken from actual business scenarios wherever possible. Different planning tools will be discussed, such as timing, negotiating and transforming.

**ACCT 6190 Contemporary Tax Accounting Topics** 3 cr.

Prerequisite: consent of department. This course will be used to offer tax topics of current interest to the student community. Topics such as Real Estate Taxation, Taxation of Natural Resources, Tax Exempt Organizations, Tax Aspects of International Transactions, and others may be offered from time to time. May be repeated for credit when topics vary.

**ACCT 6191 Seminar in Contemporary Accounting Topics** 3 cr.

Prerequisite: consent of department. An examination and discussion of the non-tax accounting topics of current interest. May be repeated for credit when topics vary.

**ACCT 6192 Special Topics in Accounting** 1 cr. min./4 cr. max.

An intensive study of selected special topics in Accounting. Topics will vary on the basis of contemporary needs – as dictated by the discipline, interests of the students and interests of the instructor. Section number will correspond with credit to be earned.

**ACCT 6194 Internship in Accounting** 3 cr.

Prerequisite: 15 hours of MBA courses with at least a 3.0 GPA and consent of the department. The student will work a minimum of 150 hours during the semester at the site of a participating organization that directs the intern in a specific Accounting project. Students must in addition engage in extensive outside research in the subject area related to their internship and submit a substantial report on this research reflecting a graduate level of learning. Enrollment is limited. May not be repeated for credit. Students wishing to take this course should apply a semester in advance with their research proposal and obtain approval prior to the internship semester. May not be used for degree credit in the Masters of Science in Accounting programs or as a substitute for the required accounting course in the MBA program.

**ACCT 6195 Directed Study** 3 cr.

Offered each semester. Prerequisite: consent of department. Readings, conferences, reports, and a research project under the direction of a member of the graduate faculty.

**Academic Orientation****ACOR 1 New Vision Group Seminar** 0 cr.

Instructions for students in the New Vision Program on the efficient management of academic and personal commitments which may improve academic performance at the university. Topics include effective study habits, time-management techniques, note-taking and test-preparation methods, and ways to develop and enhance desirable personal skills. Required of all New Vision students during

their first term in the program. Students continuing in the program who did not earn a grade of P in the first term must repeat this course. Only grades of pass or fail are awarded.

**ACOR 2 New Vision Seminar II** 0 cr.

Prerequisite: pass ACOR 0001 with a P. This course will provide continued support for second semester New Vision students through on-line instruction to help students to make efficient and effective decisions regarding their academic, personal, career development. Topics will focus on study habits, career planning, the world of work, money management, and many more. In addition, students will have an opportunity to take advantage of all of the amenities offered through Blackboard. Grades of P or U are assigned for this course.

**ACOR 1001 Academic Orientation I** 1 cr.

Orientation to the educational resources of the University and development of learning skills which will aid the student in making a successful start in college. Topics in the “learning skills” portion include analytical and problem-solving skills, time management, and techniques of note-taking and test-taking. (Open to freshmen only. Two hours of lecture per week for one-half semester).

**ACOR 1006 Academic Orientation II** 1 cr.

The individual and the world of work. Lectures and activities designed to create individual and career awareness. Topics include choosing a major and careers, occupational-interest testing, and occupational-information resources. (Offered on a pass-fail basis. Two hours of lecture per week for one-half semester).

**Aerospace Studies****AERO 1001 Foundations U.S. Air Force I & Lab** 1 cr.

Fall semester. This course focuses on the basic characteristics of air doctrine; U.S. Air Force mission and organization; functions of the U.S. strategic offensive and defensive, general purpose, and support forces; officership; followership; military customs and courtesies; and an assessment of communicative skills.

**AERO 1002 Foundations U.S. Air Force II** 1 cr.

Spring semester. This course focuses on U.S. Air Force installations and professions; introduction to flight; geographical awareness; U.S. defense policy; military balance; terrorism; and a study of the other branches of the Armed Services.

**AERO 1201 Development of Air Power I & Lab** 1 cr.

Fall semester. Traces the development of airpower from the beginning of manned flight through World War II.

**AERO 1202 Air Power History II** 1 cr.

Spring semester. A study of Post-World War II airpower development and employment, including present-day aerospace forces.

**AERO 3001 Leadership Skills I & Lab** 3 cr.

Fall semester. Prerequisite: consent of department. The general theory and practice of management applied to Air Force situations.

**AERO 3002 Leadership Skills II & Lab** 3 cr.

Spring semester. Prerequisite: consent of department. The theory and application of general concepts of leadership to Air Force situations.

**AERO 3401 National Security Affairs I & Lab** 3 cr.

Fall semester. Prerequisite: consent of department. Study of the armed forces as an integral element of society. Examines civil-military relations in the formation of defense policy; the evolution of national security policy; the national security policy process; and national security policy issues.

**AERO 3402 National Security Forces in Contemporary American Society II** 3 cr.  
Spring semester. Prerequisite: consent of department. Political, economic, social, technological, and international developments; their effects upon strategic preparedness and the overall defense policy-making process.

## **Anthropology**

**ANTH 1010 Peoples of the World** 3 cr.  
Offered each semester. A topical survey of tribes and cultures of the world past and present. This course is designed to acquaint the beginning student with anthropology and its various subfields. It will examine the background of several cultures at different levels of development which are now undergoing the difficult process of combining their traditional ways of life with the rapid changes imposed on them by the modern world.

**ANTH 1020 Fads, Fallacies, and Human Origins** 3 cr.  
A rational examination of numerous supposed ancient "mysteries" and unsolved phenomena relative to human origins using the data and methods of modern archaeology. Topics will include those areas in anthropology and archaeology made popular by sensationalist authors such as lost continents, ancient astronauts, strange stone monuments, pyramids, the Yeti and other monsters, lost races, archaeoastronomy, psychic anthropology, catastrophisms, and others. Major foci will include both the evidence for the actual causes of the phenomena and an examination of the methodology and style of pseudo-scientific sensationalist authors.

**ANTH 1030 America as a Foreign Culture** 3 cr.  
America examined as a foreign culture, or set of interrelated cultures, as it might be viewed by anthropologists from other nations. Topics will include an introduction to anthropology, American core values, the concept of national character, a history of ethnic groups in the United States, concepts of class stratification and culture change. The course is designed to encourage interaction between Americans and foreign students through participation in field trips to museums, festivals and other cultural events.

**ANTH 1231 World Archaeology: Cultures from the Earth** 3 cr.  
A worldwide survey of prehistoric cultural adaptations from the first use of bone and stone tools to the ancient mysterious civilizations of Asia, Africa, the Americas and Europe including recent archaeological discoveries: the lost cities of the Indus Valley; the megalithic temple builders of Malta; the pyramids of Egypt, Peru, and Mesoamerica; the terra cotta army of China; and the Moundbuilders of North America. Emphasis is placed on the development of technology, social groups and the patterns of cultural development.

**ANTH 1292 Anthropology of Louisiana** 1 cr.  
An examination of particular aspects of Louisiana culture as seen by an anthropologist. Topics will vary each semester, but they will emphasize Louisiana's cultural diversity from the prehistoric background to the contribution of various European and African groups. Two hours of lecture per week for one-half semester. May be repeated once for a total of two credits.

**ANTH 2051 Human Origins** 3 cr.  
Offered each semester. The origin and evolution of the human species, primates, modern human variation, prehistoric societies, and linguistic classification.

**ANTH 2052 Cultural Anthropology** 3 cr.  
Offered each semester. Cross-cultural, global, comparative, and critical perspectives on human behavior and culture. Diversity of human cultures from hunter-gatherers to industrialized city dwellers. Implications of sociocultural analysis of economic, social, political, symbolic, and religious systems.

**ANTH 2151 Forensic Anthropology** 3 cr.  
Prerequisite: ANTH 2051 (or an equivalent course in physical/biological anthropology), graduate status or consent of department. The study of human skeletal material for the determination of basic information (age, race, sex, ancestry, ethnicity, stature, weight). Topics include osteometry, ancestry, and the establishment of specific individual characteristics from skeletal remains. Special lectures on recognition of trauma and common disease processes in bone will also be provided. Laboratory exercises will allow student group to analyze forensic cases to reinforce lecture and reading material.

**ANTH 2991 Independent Work** 1 cr.  
Prerequisite: consent of department. Readings, conferences, and reports under the direction of a member of the anthropology faculty.

**ANTH 2992 Independent Work** 1 cr.  
Prerequisite: consent of department. Readings, conferences, and reports under the direction of a member of the anthropology faculty.

**ANTH 2993 Independent Work** 1 cr.  
Prerequisite: consent of department. Readings, conferences, and reports under the direction of a member of the anthropology faculty.

**ANTH 3090 Special Topics in Cultural Anthropology** 3 cr.  
Prerequisite: ANTH 2051 or 2052 or consent of department. The examination of selected societies, culture areas, or social institutions, or theoretical topics to illustrate the anthropological perspectives to problems of applied anthropology, culture process, change, and development. Topic will vary from semester to semester. May be repeated once for credit.

**ANTH 3101 Intermediate Physical Anthropology** 3 cr.  
Prerequisite: ANTH 2051. The structural and behavioral background of the human species as revealed by living and fossil primates, ancient forms of humanity, comparative osteology, and the interaction of biological and cultural evolution.

**ANTH 3190 Special Topics in Physical Anthropology** 3 cr.  
Prerequisite: Anthropology 2051 or 2052 or consent of department. The in depth study of selected aspects of physical anthropology to illustrate the anthropological approach to problems regarding the biological and/or cultural aspects of man's development. Topic will vary from semester to semester. May be repeated once for credit.

**ANTH 3201 Field Methods in Archaeology** 3 cr.  
Prerequisite: consent of department. An introduction to the techniques of excavation, recording, laboratory analysis, and care of archaeological materials. Participation in the excavation of local sites. Two hours of lecture and four hours of laboratory.

**ANTH 3207 European Prehistory: Stone Age to Stonehenge** 3 cr.  
An examination of the archaeological sequence in Europe from the first evidence of human occupation to the establishment of urban civilization in the western Mediterranean basin.

**ANTH 3215 North American Archaeology** 3 cr.  
The cultural development of the indigenous peoples of the United States and Canada from the earliest settlement until European conquest. Emphasis on archaeological evidence for historical reconstruction and on cultural adaptations to the physical environment.

**ANTH 3295 Laboratory Techniques for Field Archaeology** 3 cr.  
Prerequisite: ANTH 3201 or consent of department. Detailed instruction on the cleaning, preservation, description, classification, and curation of artifacts. The comparative analysis of archaeological materials, both historic and pre-historic and the preparation of

- preliminary and final site reports. Two hours of lecture and four hours of laboratory.
- ANTH 3298 Research Problems in Field Archeology** 3 cr.  
Prerequisites: credit or concurrent registration in ANTH 3201 and consent of department. Instruction in the supervision of excavation, conduct of exploratory surveys, planning of laboratory analysis and preparation of excavation reports. Offered summer only.
- ANTH 3301 Doing Ethnography** 3 cr.  
Introduction to the theory and practice of ethnographic research methods, including ethnographic interviewing, participant observation, photography, and qualitative approaches to the analysis of cultural data. Special focus on the ethics of ethnographic fieldwork. Student engage in ethnographic research.
- ANTH 3305 Indigenous Civilizations of Middle America** 3 cr.  
The civilizations of the Aztec, Maya, Mixtec, Zapotec, and their predecessors; neighboring cultures with whom they were in contact; the continuing influence of these societies in modern times.
- ANTH 3307 South American Prehistory** 3 cr.  
The cultural development of the first inhabitants of South America from the initial occupation to the European conquest. Particular attention is devoted to the rise of complex civilizations in the central Andes and adjacent Pacific coast culminating in the Inca empire. The continuing influence of these societies in modern times is also considered.
- ANTH 3314 The Indigenous Peoples and First Nations of North American** 3 cr.  
Survey of the sociocultural systems of the indigenous peoples north of Mexico. Histories, ecologies, economies, social relations, kinship, and belief systems, including colonialism, culture contact, change, and cultural survival. Contemporary and applied issues of the First Nations.
- ANTH 3315 Caribbean Peoples and Cultures: Colonialism, Creolization, Diaspora** 3 cr.  
This course explores the cultures and societies of the contemporary Caribbean. A critical reading of recent ethnography will be used to examine themes such as colonial and post-colonial social structures, creolization, ethnicity, and the formation of national and pan-Caribbean identities. Particular attention will be given to popular religion, tourism, music, the growing Caribbean diaspora in North America and Europe and to ethnographic research methods in urban and applied contexts.
- ANTH 3320 Amazonia: People, Culture, and Nature** 3 cr.  
Ethnographic survey of the sociocultural systems developed by the indigenous peoples of Amazonia and other lowland forests. Ecological factors, subsistence practices, social organizations, politics, cosmology, ethnohistory, myths, and belief systems. Contemporary issues of colonialism, contact, change, continuity, resistance, and cultural survival, as well as issues of human rights and the destruction of the Amazonian rain forest will be examined.
- ANTH 3325 Peoples and Cultures of Mesoamerica** 3 cr.  
Ethnographic and ethnohistorical survey of the peoples and cultures of Mesoamerica, especially the Maya, Aztec, and their present-day descendents. Texts, narratives, documents, and ethnographic accounts are interpreted in light of critical theory and analysis, employing the approaches of ethnology, ethnohistory, archaeology, and literature. Colonial history, colonialism, representation, indigenous "voices," and strategies of resistance and cultural survival will be examined.
- ANTH 3340 Peoples and Cultures of Europe** 3 cr.  
This course explores the cultures and societies of contemporary Europe. A critical reading of recent ethnography will be used to
- examine themes such as the formation of national identities, ethnicity and migration, rural life and traditionalism, family and kinship, popular religion, urban development and the problem of European unity. Particular attention will be given to ethnographic research methods in urban and applied contexts.
- ANTH 3351 Peoples and Cultures of Africa** 3 cr.  
The peoples and cultures of the continent, stressing sub-Saharan groups. Although some attention will be devoted to colonial era and earlier cultures, the major focus will be on the contemporary scene, including the effects of the African diaspora.
- ANTH 3370 People and Culture of the Pacific** 3 cr.  
The geographic setting; native cultures of the Melanesians, Polynesians and Malaysians; the influences of Asiatic and Euro-American civilizations.
- ANTH 3401 Folklore** 3 cr.  
A survey of traditional tales and oral literature, both in preliterate and peasant communities and in industrialized societies; the role of folk customs in modern culture. Emphasis on an independent research project on local folklore by each student.
- ANTH 3595 Academic Year Abroad: Special Topics in Anthropology** 3 cr.  
This course is only offered through UNO's Academic Year Abroad (AYA) in Innsbruck, Austria and can be repeated once for credit.
- ANTH 3737 Women: Cross-Cultural Perspectives** 3 cr.  
An examination of the roles and status of women in selected world cultures with an emphasis on theory and analysis of the relationship of gender roles and behavior to economic, political, and social systems.
- ANTH 3750 Food and Culture** 3 cr.  
Examination of human diet and nutrition from an evolutionary and ecological perspective. The sociocultural and biological dimensions of food practices. Topics include the social roles of food: why we eat what we eat and with whom. Also discussed are food taboos and beliefs, food getting and preparation, changing food habits, contemporary problems of food production and malnutrition, and the effect of cultural and environmental influences on nutrient intake.
- ANTH 3896 Senior Honors Thesis** 1 cr. min./6 cr. max.  
Prerequisite: consent of department and director of the University Honors Program. The preparation under faculty direction of an extended research paper upon some aspect of a topic currently of concern in the field so as to meet the requirements for graduation with University Honors and Honors in Anthropology. May be repeated for up to a total of six credits. Section number will correspond with credits to be carried.
- ANTH 4070/G Qualitative Research** 3 cr.  
Prerequisite: senior standing or beyond, preferably in an established social science discipline; prior familiarity with research methodology and prior or concurrent registration in quantitative methodology courses are also advisable. Training in applied research techniques in the social sciences. Design, writing, and analysis of research using qualitative methodology with emphasis on directed, applied evaluation research, and related interdisciplinary methods and rationales.
- ANTH 4075/G Life History, Identity & Autonomy** 3 cr.  
An inquiry into the methods, theories and results of ethnographic life histories in anthropology. Emphasizing culture, cultural context, the "insider's view" (emics), and "native voice," life history texts are mediated representations of individuals created through "informed subjectivity." Critically examining the debates surrounding life history methods and focusing on the concepts of "autonomy," "self,"

- and "identity," this course explores the efficacy of using the individual as a focal unit of analysis, along with issues of representation, agency, and the construction of cultural identities. Students will engage first-hand in life history research.
- ANTH 4090/G Advanced Topics In Cultural Anthropology** 3 cr.  
Prerequisite: six hours of anthropology or consent of the department. An advanced, in-depth examination of selected societies, culture areas, social institutions, or theoretical topics to illustrate the anthropological perspective. Topics will vary from semester to semester. May be repeated for credit.
- ANTH 4155/G Human Osteology** 3 cr.  
Prerequisite: ANTH 2151 and 3101 (or an equivalent course in physical/biological anthropology), graduate status or consent of department. A forensic anthropology course focused on the examination of the anatomy and functional mechanics of the human skeleton. Consideration is given to bone histology, skeletal development, muscle attachments, major osteological structures, and articulations of the skeletal system. The course emphasizes skeletal anatomy, bone variations, and some commonly occurring bone anomalies and pathologies. Special laboratory sessions provide opportunities for hands-on experience with skeletal remains.
- ANTH 4210/G Cultural Adaptation to the Mississippi River Delta** 3 cr.  
An examination of human adaptation to the dynamic and highly complex environment of the southeastern Louisiana Deltaic plain. The archaeological and ethnographic record preserves the cultural patterns and settlements of the earliest indigenous groups to occupy the area and extends into the colonial periods of first French, then Spanish, and finally American statehood. Adaptive strategies of each of these groups will be compared, relative to their technology and imported cultural patterns. Different environmental settings will be contrasted to demonstrate the elasticity of human culture as an adaptive device.
- ANTH 4440/G Religion Magic and Witchcraft** 3 cr.  
Prerequisite: ANTH 2051 or 2052 or consent of department. The comparative and cross-cultural examination of the manner in which religions function within the total cultural systems of which they form a part. Emphasis will be given both to beliefs and practices exotic to the large world religions and also to folk customs and informal interactions within Western and other complex societies.
- ANTH 4454/G Social Structure** 3 cr.  
Prerequisite: ANTH 2051 or 2052 or consent of department. The social organization and psychological orientation of selected preliterate societies.
- ANTH 4455/G Contemporary Families and Kinship** 3 cr.  
Prerequisite: Anthropology 2051 or 2052 or consent of department. Cross-cultural and comparative study of families, kinship, and sexuality. Analysis of kinship as core social structure and as source of sentiments and symbols with broader social significance. Emphasis on relationship between kinship and cultural views of biology and reproduction, gender identities and ideologies. Students will learn field methods through self-ethnography and an applied research project.
- ANTH 4462/G Economic Anthropology** 3 cr.  
Prerequisite: ANTH 2051 or 2052 or consent of department. The comparative analysis of the economic institutions of preliterate peoples with special attention to the technological bases of these institutions.
- ANTH 4565/G Language and Culture** 3 cr.  
Prerequisite: ANTH 2051 or 2052 or consent of department. Language as the vehicle for culture; the influence of linguistic patterns and cultural configurations upon one another; the utility of various methods of linguistics analysis in the study of these programs.
- ANTH 4610/G Zoological Research in Comparative Social Organization** 3 cr.  
Prerequisites: Anthropology 2051 or consent of department. Roots of social organization both in human and non-human primates and in other animal species; supervised observational techniques for basic and applied research to coordinate with the scientific program of the Audubon Zoo.
- ANTH 4666/G Shamanism, Curing and Healing** 3 cr.  
Anthropological examination of shamanism, curing, and healing in cross-cultural perspective. Shamanic practices and belief systems are analytically and critically considered from multiple perspectives, including ethnological, historical, psychological, medical, religious, and neurological. The origins of shamanism, the use of hallucinogens, the underlying premises of curing and healing methods, the nature of shamanic belief systems, and recent trends are all considered.
- ANTH 4721/G Cultural Resource Management and Preservation Archaeology** 3 cr.  
Prerequisite: six hours of anthropology or consent of department. A problem-oriented presentation of the role of cultural resource management in the larger context of environmental impact studies. Particular attention is focused on accumulative impacts, legislative directions, and avoidance measures. The function of preservation archaeology in adaptive reutilization of standing structures and neighborhood revitalization programs is considered.
- ANTH 4723/G Historical Site Archaeology** 3 cr.  
The application of the methodology and theory of field archaeology to the investigation of the material culture and settlement patterns of the colonial period and the early nineteenth century particularly in North America; the use of these data in the study of the dynamics of evolving varieties of Euro-American and Afro-American culture.
- ANTH 4761/G Medical Anthropology** 3 cr.  
Prerequisite: three hours of anthropology or consent of department. Holistic and cross-cultural examination of medical systems as systems knowledge and as theories of reality. Includes ecological, sociopolitical, historical, and comparative analyses of health and disease in human cultures in such areas as ethnomedicine, alternative medicines, shamanism, gender, and the human life cycle.
- ANTH 4765/G Ethnicity in Contemporary Society** 3 cr.  
Prerequisite: three hours of Anthropology or consent of department. Cross-cultural analysis of concepts of race, ethnicity and national identity. Course draws on theoretical debates within anthropology and on ethnography in Africa, Asia, Europe, North and South America in order to identify cultural contexts and process behind deployment of recent ethnic conflicts around the world and on comparative study of ethnicity, race and racism in American society. Students will develop a field project related to ethnicity in the New Orleans metropolitan area.
- ANTH 4766/G The Anthropology of Sex and Gender** 3 cr.  
Inquires into the anthropology of sex and gender in historical, evolutionary, critical, and cross-cultural perspective. The course considers anthropological theories of sex and gender in the context of social, political, economic, and biological systems. Drawing on feminist anthropological theory, the significance and meanings of diversities between cultures and within American society is examined. Topics include: the nature/nurture debate; stereotyping; sex and gender roles, erotica, sexuality; homosexuality; gender origins and social change; status and power relationships.

- ANTH 4767/G Race & Racism: Old Problems, New Approaches** 3 cr.  
Prerequisite: Anthropology 2051 or 2052 or consent of department. Using anthropological perspectives, this course critically focuses on the “concept of race” and the practice of interpreting “races” as natural and real categories for dividing the human species based on perceivable physical differences. It examines the social construction of race in cross-cultural context, and the social, economic, religious, and political (colonial) contexts that shape it. A critical assessment of the essentialist claim that “race” is a self-evident description of physical and sociocultural reality. Race, racism, and cultural racism examined as ideology, worldview, and cultural myth.
- ANTH 4768/G Anthropology and Policy** 3 cr.  
Prerequisite: consent of department. This course explores the links between research in cultural anthropology and policy. It will examine areas where ethnographic research has shaped social policy and debates that have defined the relationship between anthropology and government. Particular attention will be paid to research methods and presentation strategies used by anthropologists engaged in policy research. Case studies will be drawn from recent ethnographic research in urban settings including work on health policy and substance abuse housing and homelessness and community development and activism.
- ANTH 4770/G Contact, Change, and Cultural Survival: the Anthropology of Colonialism** 3 cr.  
Prerequisite: Anthropology 2051 or 2052 or consent of department. Explores anthropological and ethnohistorical approaches to issues of contact, culture change, resistance, and cultural survival among traditional indigenous societies. Special focus is on early contacts of the colonial era and the impact of the industrial world’s economic, political and social order on indigenous peoples and cultures up to the present postcolonial era. The “global” dimension of the anthropological perspective on colonialism is emphasized.
- ANTH 4772/G Applied Anthropology** 3 cr.  
Prerequisite: six hours of anthropology or consent of department. The relevance of anthropology to business, government and local communities. Application of anthropological theories and research methods to urban social policy and human services, international and domestic development, health care, community organization, education, advocacy, tourism, market research, work environments and product design. Discussion of ethics of applied fieldwork and intervention. Students will design and carry out an applied field project in the New Orleans metropolitan area.
- ANTH 4775/G Urban Anthropology** 3 cr.  
Ethnographic approach to life in cities and to the cultures of cities. Popular myths and scholarly theories of urban life will be reviewed in light of recent ethnographic research in African, Asian, European, North and South American cities. Particular attention will be paid to cultural processes in cities, including the making of neighborhoods, the deployment of urban myths and folklore, the linking of cultural ideas about race, ethnicity and class in defining urban space, tourism, urban social policy, travel and images of cities and the making of urban consumers. Students will draw on theories and methods developed in class in order to design and carry out a field project in the New Orleans metropolitan area.
- ANTH 4777/G Transnational Processes: Migrations, Borderlands, Globalization** 3 cr.  
Prerequisite: six hours of anthropology or consent of department. This course explores transnational processes contributing to the reconfiguration of communities in the contemporary world. Recent ethnographies will be used to examine international migrations, borderlands, the impact of transnational corporations and commodities on local communities and the growth of transnational social and religious movements.
- ANTH 4780/G Exploring Visual Anthropology: Critical Perspectives and Interpretations** 3 cr.  
Prerequisite: nine hours of anthropology or graduate status or consent of department. Critical and interpretive exploration of how ethnographic film and filmmakers shape images and visions of human beings, cultures, and the human condition. Included are the history of the genre, film and ethnography in other media, and visual representations in the art and science of anthropology.
- ANTH 4790/G Internship in Anthropology** 3 cr.  
Prerequisite: Anthropology 2051 or 2052 and consent of department. Each semester the department has internships available with the Audubon Zoo research program and other museums, agencies, or industries who request student interns with a background in anthropology. Interns will meet regularly with their adviser and supervisor, both of whom evaluate the student’s work. Students are expected to turn in protocols or field logs, and a research paper as well as attend appropriate training seminars. This course may be repeated once for credit for a total of six credits.
- ANTH 4801/G The History of Anthropological Theory** 3 cr.  
Prerequisite: nine hours of anthropology or consent of department. Critical and historical study theories of culture. Historical and contemporary schools of thought and major trends in ethnological theory, along with consideration of seminal theorists. Theoretical approaches in relation to biography, historical era, and socio-cultural milieu of theorists, and to the function and purposes of anthropology in Western thought. Successful completion of this course satisfies the general degree requirements for oral competency. (For anthropology majors).
- ANTH 4825/G Contemporary Archaeological Theory** 3 cr.  
Prerequisite: Anthropology 2051 or History 2301 or consent of department. The application of anthropological theory, statistical procedures, and the analytical techniques of the natural sciences to archaeological research design, stressing contemporary developments. The relationship of archaeological data to general ethnological theory.
- ANTH 4888/G The Anthropology of the Body** 3 cr.  
Prerequisite: nine hours of anthropology or graduate status or consent of department. Explores the anthropology of the body and the body as social text. The human body is often taken for granted in the human condition. Drawing on recent interdisciplinary approaches, this course examines the ways in which social meanings and messages are shaped and controlled through the medium of “the body.” Dressed, undressed, decorated, scented, mutilated, disabled, controlled, frenzied, etc., in each instance the many, perhaps infinite manifestations of the body are interpreted as providing important clues for sociocultural analysis.
- ANTH 4990/G Independent Study** 3 cr.  
Prerequisite: consent of department. Readings, conferences, and reports under the direction of a member of the anthropology faculty.
- ANTH 4991/G Advanced Field Research in Anthropology** 1 cr. min./6 cr. max.  
Offered summers only. Prerequisites: prior field research and consent of department. Amount of credit to be determined at the time of registration. Major field research, either independent or participatory, each under faculty guidance. (May be repeated once for a maximum total of six credits.) Section number corresponds to credit to be earned.

**ANTH 4995/G Anthropology of Contemporary Issues** 1 cr.  
Prerequisite: senior standing. For majors and minors in anthropology, this seminar is devoted to an exploration of issues of the modern world from the perspective of contemporary anthropological methods and theory. Weekly seminar discussions based on core readings, oral presentations and short essays prepared by students.

## **Business Administration**

**BA 1000 Introduction to Business Administration** 3 cr.  
An elementary survey of business administration. Introduces the business or non-business major to basic concepts of economics, business management and decision-making in the functional areas of production, marketing, and finance. Emphasis on the effects of social, ethical, economic, technological, political, and economic environmental factors upon business operation. Not open to students enrolled in a degree program in the College of Business Administration who have completed 30 hours of University credit or more.

**BA 1001 Introduction to Entrepreneurship** 3 cr.  
This course will focus on the nature of entrepreneurship and its role in business enterprise and economic development. The entrepreneur and the steps in starting a business: the business idea, opportunity recognition, screening and the basics of the business plan are covered. Special issues related to the family business, franchising and female minority entrepreneurs are addressed.

**BA 2780 Application Software for Business** 3 cr.  
Offered each semester. Prerequisite: MATH 1115 or 1125. Computer techniques needed to solve business problems. Use of spreadsheets and databases to support business decision making. Data transfer between computer systems and data retrieval from business databases. Fundamentals of procedure oriented programming.

**BA 3001 Essentials of Entrepreneurship** 3 cr.  
Prerequisites: ECON 1203, MANG 3401, BA 2780, MKT 3501. This course helps students start small businesses. The student is introduced to the mind set and characteristics of the entrepreneur. The steps in the entrepreneurial process are viewed from a theoretical and practical perspective. Topics to be covered include opportunity recognition and assessment, the use of screening techniques, the elements in a business plan, strategies used to gain control over resources, team leadership, and the sources of funding from angel and venture capital investors, and bankers. Other topics include structuring the deal, managing the high growth company and harvesting the venture. This course is experiential in nature. In addition to traditional lectures and case studies, field projects, interactions with entrepreneurs and laboratory-type exercises are used.

**BA 3010 The Legal Environment of Business** 3 cr.  
Offered each semester. Nature and function of law and legal institutions in society, with emphasis on those areas of law most relevant to business operations. Topics include the court systems, torts, the Constitution and business administrative agencies, international law, labor law, antitrust law, and environmental law. A student may not receive credit for both BA 3010 and BA 4400.

**BA 3021 Business Law** 3 cr.  
Offered each semester. Prerequisite: BA 3010. Legal concepts relating to sales, commercial paper, anti-trust, bankruptcy, forms of business organizations, insurance, real property, secured transactions, suretyship, wills, estates, and trusts are presented as issues relating to specific business situations. Problems relating to financial reporting responsibilities and the growing role of federal securities regulation on the business community are also discussed.

**BA 3056 Managerial Skills For Entrepreneurs** 3 cr.  
Prerequisite: junior standing or consent of instructor. This course will focus on the development of managerial skills and behaviors of successful entrepreneurs in small organizations. Students will examine major internally-orientated topics (e.g goal setting, leadership, managing growth and overcoming adversity) and external topics (e.g, networking, negotiating, working with your banker.) The course will be taught by extensive use experiential exercises, case discussions, field trips, and guest lectures by entrepreneurs.

**BA 3080 Corporate Social Responsibility** 3 cr.  
Offered each semester. Investigates the elements which form the ethical standards of the United States corporate community and the philosophical, religious, and cultural roots of such standards. Reading in ethical problems of advertising, pricing, automation, and business involvement in solution of social problems. Includes case studies and simulations.

**BA 3090 Internship in Entrepreneurship** 3 cr.  
Prerequisite: Consent of department. This course will permit undergraduates to be engaged in at least ten hours per week at the site of a private sector organization that directs interns in specific projects or job duties relating to entrepreneurial activities. There are no textbooks and no formal class meetings, although students are required to meet one-on-one with the instructor to review their progress. Students prepare a major written report on their experience.

**BA 3091 Independent Study in Entrepreneurship** 3 cr.  
Prerequisite: consent of department. This tutorial is arranged individually in order to provide the opportunity for specialized study and research on topics in entrepreneurship. The faculty member will arrange a study/research proposal with each student in the initial meeting. Weekly project reports, meetings, and a research paper are required.

**BA 4048/G International Business Law** 3 cr.  
Prerequisite: BA 3010. Law as it relates to international business organizations and commercial transactions. Among the subjects covered are sovereign immunity and international treaties and agreements; foreign antitrust laws and unfair trade practices; protection of property rights of American subsidiaries abroad; alien investment in the United States; foreign relations law; trade liberalization; and international arbitration.

**BA 4056/G Business Planning** 3 cr.  
Prerequisite: senior standing or consent of instructor. An examination of the crucial factors involved in the conception, initiation, and development of new business ventures. The elements of a business plan for a new venture are examined. Topics include the nature of entrepreneurs and entrepreneurship, market and feasibility analysis, sources of money, financial analysis and planning, ownership forms and tax considerations, and staffing and organization of the firm. A major requirement will be the development of a business plan for a new venture.

**BA 4076/G Small Business Consulting** 3 cr.  
Prerequisite: MANG 3401 and MKT 3501 or consent of department. A supervised learning practicum where students can apply academic knowledge in a small business situation. Hands-on experience through a consulting assignment with a small business client. Participating businesses and student teams must develop jointly a proposal which addresses the problems of concern to the entrepreneur.

**BA 4400 The Legal and Ethical Environment of Business** 3 cr.  
A survey of basic legal and ethical topics in the areas of Constitutional law, torts, administrative agency law, contract law, international law, commercial paper law, agency law, business organizations law, antitrust and securities laws. Provides an introduction to

fundamental legal and ethical concepts for pre-MBA students who have not had prior course work in these areas. Not open to undergraduate College of Business Administration majors. A student may not receive credit for both BA 3010 and BA 4400. May not be taken for graduate credit.

- BA 6010 Health Care Management** 3 cr.  
A survey of the effective management of health care organizations. Classical managerial functions and principles are examined in the light of the latest contingency theories and findings of the behavioral scientists.
- BA 6011 Human Resource Management in Health Care Settings** 3 cr.  
A broad study of the theories, techniques and legal environment pertaining to modern personnel management in health care settings. A student may not receive credit for both BA 6011 and MANG 6467.
- BA 6012 Organization Behavior in the Health Care Realm** 3 cr.  
The study of organizational behavior and enhancement of interpersonal competence in health care settings.
- BA 6013 Strategic Issues in Health Care Organizations** 3 cr.  
Prerequisite: Final semester in Health Care Management Program. A survey of strategic management and situational analysis of health care organizations. The need and rationale for strategic management in today's turbulent health care environment and how strategy is translated to practical solutions of health care industry problems.
- BA 6014 Business Topics in Health Care Management** 3 cr.  
A survey of various topics in Accounting and Finance relevant to students in the M.S. program in Health Care Management who do not have a business background. The course is not open to students in the MBA program.
- BA 6080 Business and Society** 3 cr.  
A review of the major ethical questions of business. Discusses the structures of society upon business action and the place of social responsibility in corporate objectives.
- BA 6097 Special Topics in Business Administration** 1 cr. min./4 cr. max.  
An intensive study of selected special topics in Business Administration. Topics will vary based on contemporary needs as dictated by the discipline as well as the interests of the students and the instructors. Section number will correspond with credit to be earned.
- BA 6780 A Survey of Decision Making Tools for Managers** 3 cr.  
Prerequisite: QMBE 4400 or consent of department. This course is a survey of decision making tools for business managers and students. Emphasis is on applying basic analytical, qualitative tools in the decision making process.
- BA 7040 Examination or Thesis Only No credit** 0 cr.  
Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

## Biological Sciences

General Prerequisites: Students may receive credit for only one course from each of the following pairs: Biological Sciences 1063 and 1073, 1083 and 1053, 1061 and 1071, 1051 and 1081, 2014 and 2553. Students must attain grades of C or higher in any courses serving as prerequisites for higher-level courses.

Some of the biology courses entail dissection of animal or plant material. Such dissection is an essential component in the learning of biological principles and is required of all students majoring in the Biological Sciences at UNO and of all students matriculating in the upper-level biology courses. It is recognized that a significant number of nonmajor students take only the 1000-level biology courses and do not matriculate toward upper-level biology coursework. It is the policy of the department that, in the 1000-level biology courses (with the exception of Biology 1311), such nonmajor students who, for ethical reasons, object to dissection, may request of the laboratory instructor to be exempted there from (with the understanding that the student will be held responsible for the course material contained therein). BIOS 1042 Biology Laboratory for Non-Majors 2 cr.

Prerequisite: credit in BIOS 1053 or 1063. Introduction to the general principles of biology, including planning and conducting experiments from the cellular to the ecosystem level, and using data to explain observations. Labs are designed as integrated, hands-on activities providing non-science majors with a firm scientific understanding of Life Sciences. One hour lecture and three hours lab. Not offered for credit to fulfill science requirements of students enrolled in the College of Sciences. Credit may not be earned in BIOS 1042 and BIOS 1071, 1081.

**BIOS 1051 Contemporary Biology Laboratory** 1 cr.  
Prerequisite: eligibility for enrollment in ENGL 1157. Enrollment in BIOS 1053 is recommended. Not offered for credit to fulfill science requirements of students enrolled in the College of Sciences, Allied Health Program, or Science Education. This course is designed to complement material presented in Biological Sciences 1053. Laboratories explore the types of activities occurring in living systems including various aspects of human physiology such as blood pressure, the effects of exercise on the heart and muscle function. The remainder of the course involves a study of how cells reproduce, human genetics, and human reproduction. The course meets for two hours once per week. Credit may not be earned in both BIOS 1051 and 1081.

**BIOS 1053 Contemporary Biology** 3 cr.  
Prerequisite: eligibility for enrollment in ENGL 1157. Not offered for credit to fulfill science requirement of students enrolled in the College of Sciences, Allied Health Program, or Science Education. Concurrent enrollment in BIOS 1051 is not required. Credit may not be earned in both BIOS 1053 and BIOS 1083. This course is one of two courses designed to present biology in a manner relevant to the non-science major. This semester consists of a study of form and function of the human body and aspects of health and disease.

**BIOS 1054 Introductory Biology** 4 cr.  
Prerequisite: SCI 1012. Introduction to the general principles of biology, including planning and conducting experiments, using data to explain observations, the structure and function of animals and plants, microbiology, ecology, classification and the diversity of organisms, and genetics. Lab will be integrated in a hands-on manner designed to provide future elementary teachers and non-science majors with a firm scientific understanding of Life Sciences. Three hours lecture and three hours lab. Not offered to fulfill science requirements of students enrolled in the College of Science.

**BIOS 1061 Contemporary Biology Laboratory** 1 cr.  
Prerequisite: eligibility for enrollment in ENGL 1157. Enrollment in BIOS 1063 is recommended. Not offered for credit to fulfill science requirements of students enrolled in the College of Sciences, Allied Health Program, or Science Education. This course is designed to complement material presented in BIOS 1063. A survey of the five living kingdoms is presented with a focus on basic aspects of their biology and their evolutionary relationships. Principles of behavior are illustrated with student observation of a number of animal groups, and principles of ecology and ecosystem analysis are

investigated using the local marsh ecosystem. The course meets for two hours once per week. Credit may not be earned in both BIOS 1061 and BIOS 1071.

**BIOS 1063 Contemporary Biology** 3 cr.  
Prerequisite: eligibility for enrollment in ENGL 1157. Not offered for credit to fulfill science requirements of students enrolled in the College of Sciences, Allied Health Program, or Science Education. Enrollment in BIOS 1061 is not required for enrollment in BIOS 1063. This course is part of a two-semester sequence. The course is designed to provide the non-science major with basic information about the principles of ecology and evolution, and the impact of man on the environment. Topics include the origin and evolution of plants and animals, aspects of animal (including human) behavior, evaluation of methods of pest control and pollution. Credit may not be earned in both BIOS 1063 and BIOS 1073.

**BIOS 1071 Biodiversity Laboratory** 1 cr.  
Prerequisite: credit or concurrent enrollment in BIOS 1073. Students are given exposure to representatives of the various groups of organisms discussed in BIOS 1073 as well as other lecture topics that can be appropriately considered in the context of a laboratory setting (e.g. cell division and genetics). The course meets for three hours once per week. Credit may not be earned in both BIOS 1071 and BIOS 1061.

**BIOS 1073 Biodiversity** 3 cr.  
Prerequisites: eligibility for enrollment in ENGL 1157, MATH 1125 and credit or concurrent enrollment in BIOS 1071. An introduction to organismal biology in the broadest sense. The theory of evolution and its historical development are considered and provide the framework for a survey of diversity encountered in the five kingdoms of living organisms. The course finishes with an introduction to the basic principles of genetics and their relation to the process of evolution. Three hours of lecture. Credit may not be earned in both BIOS 1073 and BIOS 1063.

**BIOS 1081 Form & Function Lab** 1 cr.  
Prerequisite: credit or concurrent enrollment in BIOS 1083. This course is designed to demonstrate several of the principles discussed in BIOS 1083. Students are given exposure to the form (structure) of plants and animals at the cell, tissue, and organ levels. Students also perform experiments designed to explore how plants and animals function. Quantitative data are collected and analyzed. Other topics include control of the internal environment, organismic integration, the cell cycle, and animal development. The course meets for three hours once per week. Credit may not be earned in both BIOS 1081 and BIOS 1051.

**BIOS 1083 Form & Function** 3 cr.  
Prerequisites: eligibility for enrollment in ENGL 1157 and Math 1125 and credit or concurrent enrollment in BIOS 1081. An introduction to animal and plant structure and function at the level of organ systems. Topics will include digestion, circulation, respiration, excretion, chemical and neural coordination, sensory systems and effectors, reproduction and development. Three hours of lecture. Credit may not be earned in both BIOS 1083 and BIOS 1053.

**BIOS 1301 Human Anatomy and Physiology Laboratory** 1 cr.  
Offered each semester. Prerequisite: credit with C or better or concurrent registration in BIOS 1303. Three hours of laboratory each week to accompany BIOS 1303. Practical applications of the basic biological principles and a detailed study of the skeleton, brain, and major sensory organs.

**BIOS 1303 Human Anatomy and Physiology** 3 cr.  
Offered each semester. Prerequisites: Eligibility for enrollment in ENGL 1157 and MATH 1115 or 1125, and credit with a C or better or concurrent enrollment in BIOS 1301. This course is primarily

designed for nursing and allied health students. An introductory course dealing with structural and functional relationships of the human organism at the cellular, tissue, organ, and system levels. The course covers general principles in biology and a detailed study of the skeletal, muscular, nervous systems of humans.

**BIOS 1311 Human Anatomy and Physiology Laboratory** 1 cr.  
Offered each semester. Prerequisites: credit with a C or better or concurrent registration in BIOS 1313. Three hours of laboratory each week to accompany BIOS 1313. A detailed dissection of the cat with correlations made to human anatomy. Selected physiological experiments which demonstrate principles involved in the various body systems. Applications of the basic biological principles and a detailed study of the skeleton, brain, and major sensory organs.

**BIOS 1313 Human Anatomy and Physiology II** 3 cr.  
Offered each semester. Prerequisite: credit in BIOS 1301 and 1303 with a C or better or concurrent registration in BIOS 1311. A continuation of 1303 examining the other major systems of the body and some human genetics and growth.

**BIOS 2002 Internship in Biology** 2 cr.  
Prerequisite: BIOS 2014 or BIOS 2114 or consent of department. Not offered during the summer session. Off-campus research at various local research facilities and institutions that do not have undergraduate programs. Research internships are designed to provide practical hands-on research experience in the Life Sciences. Students must coordinate an agreement with an off-campus research sponsor from a list of approved sponsors. Students must register during Phase 1 registration. Students are required to submit a written description of their proposed activities prior to approval. Requires commitment to a minimum of 12 contact hours per week at the off-campus facility. May be repeated once for biology elective credit. Additional hours may be taken for university general elective credit.

**BIOS 2014 Population Genetics, Evolution, and Ecology** 4 cr.  
Prerequisites: BIOS 1073, 1071 and MATH 1125. An introduction to the ecological and evolutionary processes that shape life on earth. Genetics and population genetics are incorporated with material from the fields of systematics, developmental biology, and paleontology to form a general evolutionary theory. Emphasis is placed on the ecological context, both biotic and abiotic, within which evolutionary changes take place. The laboratory includes field studies and computer simulation exercises of lecture topics that lend themselves to coverage in a laboratory setting. Three hours of lecture and three hours of laboratory. Successful completion of BIOS 2014, 2114 and 3091 meets the general degree requirement for computer literacy.

**BIOS 2082 Undergraduate Teaching Apprenticeship** 2 cr.  
Students will assist in teaching of BIOS 1051, 1061, 1071, or 1081 and attend weekly preparation meetings, and keep a journal reflecting their teaching experience. May be repeated for a total of four credit hours in Biology.

**BIOS 2090 Sophomore Special Topics in Biology** 1 cr. min./4 cr. max.  
Prerequisites: Prerequisites will be established for each Special Topics course offered. Prerequisite information must be obtained from the departmental office prior to registration. This course will be used to develop new topics in biological sciences for sophomore level students. Topics may vary and may include lecture and/or labs.

**BIOS 2092 Sophomore Research** 1 cr. min./3 cr. max.  
Prerequisites: BIOS 1073, 1071, 1083, 1081 and statistics. Independent studies by prior written arrangement with the department and professor concerned. An introduction to research methods in

- biology. May be repeated for a total of three semester hours credits in biology. Section number corresponds with credit to be earned. A field service fee is required in this course when applicable. Additional credit hours may be taken for general elective credit.
- BIOS 2114 Cell and Molecular Biology** 4 cr.  
Prerequisites: BIOS 1083, 1081, CHEM 1018 and either CHEM 1008 or CHEM 1028. An introduction to cell biology (cell structure and function, including metabolism) and molecular biology (the flow of information from DNA to proteins). The laboratory will involve exercises dealing with the techniques used to characterize proteins, nucleic acids, and cells. Three hours of lecture and three hours of laboratory. Successful completion of BIOS 2014, 2114 and 3091 meets the general degree requirement for computer literacy.
- BIOS 2290 Sophomore Special Topics in Biology** 1 cr. min./4 cr. max.  
Special Topics in Biology
- BIOS 2303 Human Biological Issues** 3 cr.  
Prerequisite: BIOS 1053 or 1083 or 1313. An examination of several health-related biological issues including cancer, AIDS, metabolism and dieting, in vitro fertilization, and the uses of genetic engineering. Not available for science credit in bachelor of science curriculum in biological sciences.
- BIOS 2313 Nutrition** 3 cr.  
Prerequisites: minimum of three credits in Biological Sciences and CHEM 1012 or 1017. This course is primarily designed for nursing and allied health students. A detailed study of nutrition with emphasis on metabolic pathways and relationships between nutritional intake and normal and pathological changes in the human organism.
- BIOS 2553 Evolution** 3 cr.  
Prerequisites: BIOS 1073, 1071, 1083, 1081 or 1053, 1063. A study of theories, principles, and mechanisms of the evolution of life on earth.
- BIOS 2663 Introduction to Environmental Biology** 3 cr.  
Prerequisites: BIOS 1063 and 1061 or BIOS 1073 and 1071. An examination of the relationship between basic biological principles and current environmental problems. The impact of population growth, natural resource utilization, and waste generation and disposal on natural environments and biological diversity will be examined. The ecological, economic, and genetic rationale for conserving biological diversity and biological resources will be discussed.
- BIOS 2711 Microbiology Lab** 1 cr.  
Prerequisites: Successful completion of BIOS 2743 or concurrent enrollment in BIOS 4713. Students in this lab course will learn to use a bright field light microscope, to prepare slides, to use aseptic techniques, and to use appropriate microbiology laboratory equipment correctly.
- BIOS 2741 Micro & Human Disease Laboratory** 1 cr.
- BIOS 2743 Microbiology & Human Disease Lecture** 3 cr.  
Prerequisite: Successful completion of CHEM 1017 AND either BIOS 1083/1881 or BIOS 1303/1301. This lecture course is designed primarily for allied health majors. A survey of general and pathogenic microbiology including immunity and epidemiology.
- BIOS 2813 Economic Botany** 3 cr.  
Prerequisites: BIOS 1073 or 1063. Botanical, horticultural, and economic aspects of plants used as sources of food, fibers, and pharmaceuticals as well as other plants important to contemporary societies; origin and evolution of cultivated plants.
- BIOS 2904 Introduction to Marine Zoology** 4 cr.  
Prerequisites: BIOS 1073 1071 and 1083 1081 or consent of department. Field and laboratory survey of marine animals with emphasis on those of Louisiana Gulf Coast, including classification, morphology, physiology, and ecology. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory. Summers only.
- BIOS 2914 Introduction to Marine Science** 4 cr.  
Prerequisite: consent of department. Introduction to physical, chemical, geological, and biological processes in oceans and coastal environments and their interactions with humans and the marine environment. Five weeks at a Louisiana Marine Consortium Coastal Laboratory. Summers only.
- BIOS 2954 Comparative Anatomy of Chordates** 4 cr.  
Prerequisites: BIOS 1073, 1071 and 1083, 1081. A study of changes in homologous organs in the chordate body and an analysis of the significance of these changes. Two hours of lecture and six hours of laboratory.
- BIOS 3091 Undergraduate Seminar** 1 cr.  
Offered each semester. Prerequisites: BIOS 2014, 2114 and one biology course completed at the 3000 level. Open to biological science and education majors only. Students will present seminars on biological topics from the original literature. Preparation and presentation will require the use of computers. Successful completion of this course satisfies the general degree requirement for oral competency. Successful completion of BIOS 2014, 2114 and 3091 meets the general degree requirement for computer literacy.
- BIOS 3092 Independent Research** 1 cr. min./3 cr. max.  
Prerequisites: BIOS 2014, 2114 and Statistics. Independent studies by prior written arrangement with the department and professor concerned. An introduction to research methods in biology. May be repeated for a total of six semester hours credit in biology. Section number corresponds with credit to be earned. A field service fee is required in this course when applicable. Additional credit hours may be taken for general elective credit.
- BIOS 3113 Immunology** 3 cr.  
Prerequisite: BIOS 2114. A comprehensive survey of the fundamental elements and basic concepts of immunology including the cellular and molecular aspects of the immune response. Three hours of lecture and discussions of assigned reading.
- BIOS 3284 Histology and Cytology** 4 cr.  
Prerequisite: BIOS 2114. A study of the structure-function relationship of cells and tissues of the four basic tissue types in animals. Three hours of lecture and three hours of laboratory.
- BIOS 3354 Vertebrate Physiology** 4 cr.  
Prerequisite: BIOS 2114 Lectures and laboratory experiments are integrated to enhance the student's understanding of general principles in vertebrate physiology, as well as their skills in scientific methodology, data analysis and in the communication of experimental results. Three hours of lectures and three hours of laboratory.
- BIOS 3453 Genetics** 3 cr.  
Prerequisites: BIOS 2014 and 2114. An integration of Mendelian and molecular genetics, population genetics, and molecular evolution.
- BIOS 3490 Special Topics in Physiology and Cell Biology** 1 cr. min./4 cr. max.  
Prerequisite: BIOS 2114; additional prerequisites may be established for each Special Topics course offered. Prerequisite information must be obtained from the departmental office prior to registration. Treatments of specialized subjects in physiology, biochemistry, cell and molecular biology. Topics will vary. Lecture and/or laboratory. Section number will correspond with credit to be earned.

- BIOS 3590 Special Topics in Organismic Biology** 1 cr. min./4 cr. max.  
Prerequisite: BIOS 2014; additional prerequisites may be established for each Special Topics course offered. Prerequisite information must be obtained from the departmental office prior to registration. Treatment of specialized subjects in ecology, evolution and systematics. Topics will vary. Lecture and/or laboratory. A field service fee may be required in this course. Section number will correspond with credit to be earned.
- BIOS 3653 General Ecology** 3 cr.  
Prerequisite: BIOS 2014. A study of the relationships between organisms and their environment. Three hours of lecture. An independent research project and/or field trips outside of the class may be required.
- BIOS 3854 General Botany** 4 cr.  
Prerequisite: BIOS 2014, 2114. A survey of the plant kingdom emphasizing classification, structure, and function. Three hours lecture and three hours of laboratory.
- BIOS 3944 Vertebrate Zoology** 4 cr.  
Prerequisite: BIOS 2014 and BIOS 2954. A study of the behavior, classification, distribution, ecology and evolution of the vertebrates. Laboratory will emphasize classification and identification of local vertebrates as well as comparative morphological/skeletal adaptations. Three hours of lecture and three hours of laboratory. A field service fee is required for this course.
- BIOS 4003/G Biometry** 3 cr.  
Prerequisite: MATH 2314 or an equivalent course. Statistical inference, analysis of variance, regression, correlation, and non-parametric methods. Introduction to multivariate analysis. Examples are chosen to illustrate applications in the biological sciences.
- BIOS 4010 Senior Comprehensive Examination** 0 cr.  
Graduating seniors must complete a comprehensive departmental examination and take the ETS Major Field Test, Biology (students pay cost). If a student has taken the GRE Biology Subject Exam, MCAT, DAT, that score may also be submitted. Students will attend an organizational meeting during the second week of class to discuss guidelines for completion of the course.
- BIOS 4013/G Multivariate Analysis of Biological Data** 3 cr.  
Prerequisites: CSCI 1201 and BIOS 4003 or consent of department. An introduction to the analysis of multivariate data for the biological sciences. Topics include multiple regression and correlation, principal components analysis, factor analysis, ordination and cluster analysis, multivariate analysis of variance, and discriminant analysis. Laboratory emphasizes implementation of multivariate techniques with computer programs. Two hours of lecture and three hours of laboratory.
- BIOS 4083/G Marine Science for Teachers** 3 cr.  
Prerequisites: BIOS 1073, 1071, 1083, 1081 or consent of department. Available only for free elective credit for students enrolled in the Bachelor of Sciences program in Biological Sciences. Introduction to marine biology and oceanography for teachers with little or no background in marine studies: methods for infusing marine science into existing elementary, middle, and high school curricula: emphasis on Louisiana environments and resources. Three weeks at a Louisiana Universities Marine Consortium coastal laboratory or an affiliated university campus with one field trip to coastal Louisiana. Summers only.
- BIOS 4090/G Special Topics for Biology Teachers** 1 cr. min./4 cr. max.  
Prerequisites: completion of 8 hours of biological sciences and consent of department. Course provides prospective and in-service teachers with experience in specialized subjects in the biological sciences appropriate for secondary education. Available for students enrolled in the B.S. program in Biological Sciences as free elective credit only. Lecture and/or laboratory. Not available for credit for students in the M.S. program in Biological Sciences. Section number will correspond with credit to be earned.
- BIOS 4091 Senior Honors Thesis** 1 cr. min./3 cr. max.  
Prerequisites: 15 hours of biology credits and prior written arrangement with the department and professor(s) concerned. Students who wish to write a Senior Honors Thesis in order to graduate With Honors in Biological Sciences also need the approval of the director of the Honors Program. Limited to outstanding undergraduate students who have a minimum of a 3.50 grade point average in biological sciences. Independent research conducted in conjunction with biology faculty. A written report must be submitted and defended at the completion of the project. Not available for graduate credit, nor may BIOS 4091 credit be used to satisfy the departmental requirement for 4000-level biology credit. May be repeated for a total of six credits in biology. Additional credit hours may be taken for general elective credit.
- BIOS 4093/G Laboratory Skills for Biology Teachers** 3 cr.  
Prerequisites: completion of 8 hours of biological sciences and three hours of chemistry and consent of department. Available only for free elective credit for students enrolled in the B.A. or B.S. program in Biological Sciences. Not available for credit for students in the master of science program in biological sciences. Course provides prospective and in-service teachers with experiences in laboratory skills and techniques used in the teaching of biological sciences at the secondary level. Emphasis placed on scientific methodology, data collection, and analysis.
- BIOS 4103/G Biochemistry I** 3 cr.  
(BIOS 4103 and CHEM 4510 are cross-listed). Prerequisite: CHEM 2218 and BIOS 2114 or consent of department. The class examines major classes of biologically important molecules, including their chemical and physical properties, how simple precursors are used to make complex macromolecules, and the function of these macromolecules. Students may not receive credit for both CHEM 4510 and BIOS 4103. Three hours of lecture and one hour of recitation.
- BIOS 4113/G Biochemistry II** 3 cr.  
(BIOS 4113 and CHEM 4511 are cross-listed). Prerequisite: BIOS 4103 or CHEM 4510 or consent of department. A survey of important biochemical pathways with special emphasis on regulation and integration of metabolism. Three hours of lecture and one hour of recitation.
- BIOS 4114/G Biochemistry and Molecular Biology Laboratory** 4 cr.  
Prerequisites: BIOS 3453 or BIOS 3104. An introduction to biochemical and molecular biological laboratory techniques including enzymology, electrophoresis, column chromatography, tissue fractionation, restriction mapping, and DNA sequencing. Two hours of lecture and four hours of laboratory.
- BIOS 4153/G Molecular Biology** 3 cr.  
Prerequisite: BIOS 3453. Structure and organization of DNA and chromatin, DNA replication, repair, transcription and RNA processing, protein biosynthesis and turnover, transcriptional and post-transcriptional control mechanisms. Examples of the above topics from eucaryotic and procaryotic cells and viruses.
- BIOS 4334/G Cell Physiology** 4 cr.  
Prerequisites: BIOS 2114 and MATH 2314. BIOS 3104 is recommended. The function of cells and cell organelles interpreted in terms of ultrastructure, biochemistry, and biophysics. Three hours of lecture and four hours of laboratory.

- BIOS 4343/G Endocrinology** 3 cr.  
Prerequisites: BIOS 3354. Comparative endocrinology of vertebrates.
- BIOS 4353/G Comparative Animal Physiology** 3 cr.  
Prerequisites: BIOS 3354. A comparative study of physiological mechanisms and specialization of invertebrates and vertebrates as related to homeostasis, ecology, and phylogeny. Three hours of lecture.
- BIOS 4373/G Biology of Aging** 3 cr.  
Prerequisite: BIOS 3453 or BIOS 3104. An examination of current ideas of the causes and effects of biological aging at the organismic and cellular levels. Topics will include population dynamics, evolution, and cellular genomic and stochastic processes.
- BIOS 4384/G Plant Physiology** 4 cr.  
Prerequisite: BIOS 2114. A study of plant functions, including hormonal systems, photosynthesis, water relations, adaptations to environment stress, photomorphogenesis and photoperiodism. Three hours of lecture and four hours of laboratory.
- BIOS 4414/G Animal Development** 4 cr.  
Prerequisite: Three biology credit hours at or above the 3000 level. A detailed examination of the evolutionary patterns and mechanisms of animal development. The underlying cellular and molecular mechanisms of development are emphasized in lecture. The laboratory portion of the course emphasizes the developmental anatomy of vertebrates. Three hours lecture, three hours laboratory.
- BIOS 4490/G Special Topics in Physiology and Cell Biology** 1 cr. min./4 cr. max.  
Prerequisites: BIOS 2114; additional prerequisites may be established for each Special Topics course offered. Prerequisite information must be obtained from the departmental office prior to registration. Treatment of advanced specialized subjects in physiology, biochemistry, cell and molecular biology. Topics will vary each semester. Lecture and/or laboratory. Section number will correspond with credit to be earned.
- BIOS 4513/G Population Genetics and Evolution** 3 cr.  
Prerequisites: BIOS 2014 and MATH 1125. An introduction to the mathematical and quantitative theory of evolutionary processes. Topics include, but are not confined to, mutation, natural selection, genetic drift, quantitative variation, and speciation.
- BIOS 4523/G Evolutionary Ecology** 3 cr.  
Prerequisite: credit in BIOS 2014 and either PSYC 1310 or MATH 2314. An application of basic principles of population genetics and ecology to a series of contemporary topics in evolutionary ecology. Discussion sections (one hour) based on assigned readings in the primary literature presentations (two hours).
- BIOS 4534/G Conservation Biology** 4 cr.  
Prerequisite: BIOS 2014. A broad survey of how fundamental biological principles are applied to problems in conservation biology. Principal themes include the measurement and definition of biological diversity, population ecology and genetics, systematics, evolutionary biology, population viability analysis, reserve design, ex situ strategies, environmental law and the human dimension in conservation. Three hours of lecture and three hours lab. Some field trips also included.
- BIOS 4543/G Habitats, Organisms & Biodiversity** 3 cr.  
Prerequisite: BIOS 2014 and at least one 3000-4000 BIOS Group 2 course. This course focuses on large-scale patterns of global habitats and biological diversity and covers systematics, basics of population biology and genetics, global diversity of plants, arthropods and vertebrates, and ecological surveys of all major biomes. Three hours of lecture.
- BIOS 4590/G Special Topics in Organismic Biology** 1 cr. min./4 cr. max.  
Prerequisites: BIOS 2014; additional prerequisites may be established for each Special Topics course offered. Prerequisite information must be obtained from the departmental office prior to registration. Treatment of advanced specialized subjects in ecology, evolution, and systematics. Topics will vary each semester. Lecture and/or laboratory. A field service fee may be required in this course. Section number will correspond with credit to be earned.
- BIOS 4624/G Limnology and Oceanography** 4 cr.  
Prerequisite: BIOS 2014. Physiochemical and biological dynamics of fresh and estuarine waters. Two hours of lecture and four hours of laboratory. A field service fee is required in this course.
- BIOS 4634/G Marine Ecology** 4 cr.  
Prerequisite: BIOS 3653 or consent of department. Relationships of marine and estuarine organisms to environmental factors; interactions among organisms; ecological processes of energy and materials flow; field studies of communities and ecosystems of Louisiana coastal zone. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory. Summers only.
- BIOS 4644/G Animal Behavior** 4 cr.  
Prerequisite: BIOS 2014 and either BIOS 3654 or 3354. An examination of ethological methods and theory, including historical and comparative aspects, the evolution of social behavior and societies, and the theory of sociobiology. An independent research project on some aspect of behavior, with a paper and an oral presentation summarizing the results of the project, is required. Three hours lecture and three hours of laboratory.
- BIOS 4713/G Advanced Microbiology** 3 cr.  
Prerequisites: BIOS 2014 and BIOS 2114. Either BIOS 3104 or 3453 is recommended. A study of the three domains of life: Bacteria, Archea, and Eukarya, emphasizing the diversity and evolution of these organisms. This course will also stress the topics of Microbial cell structure, metabolism, ecology, genetics, virology, and pathogenesis with emphasis on our current understanding of how microorganisms communicate with and adapt to their environment on a molecular level. This course is designed for students interested in post-graduate work in medicine, biotechnology, or research in molecular and cell biology as well as microbiology.
- BIOS 4714/G Microbial Physiology** 4 cr.  
Prerequisites: BIOS 3754 and 3104 or consent of department. Concepts of microbial nutrition, metabolism, adaptation, and cellular control. Three hours of lecture and three hours of laboratory.
- BIOS 4723/G Virology** 3 cr.  
Prerequisites: BIOS 2014, 2114 and at least one BIOS course at the 3000 level. This course will focus on the biology of viruses as well as other acellular pathogens such as virioids and prions with an emphasis on molecular mechanisms for the interactions between viruses and their host cell populations. Replication strategies of the various classes of viruses that infect bacteria and eukaryotes will be discussed. Three hours of lecture.
- BIOS 4724/G Marine Microbiology** 4 cr.  
Prerequisite: Consent of department. Introduction to the estuarine and marine microbes, especially bacteria and fungi; covers classification, methodology, role in marine ecosystems, biogeochemical cycles, and diseases of marine animals. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory. Summers only.
- BIOS 4814/G Marine Botany** 4 cr.  
Prerequisite: BIOS 3854 or consent of department. Study of marine and coastal algae and vascular plants including classification

- morphology life cycles and ecology; emphasis on field and laboratory studies. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory. Summers only.
- BIOS 4833/G Terrestrial Plant Ecology** 3 cr.  
(BIOS 4833 and GEOG 4833 are cross-listed). Prerequisite: Consent of department. A broad overview of the specialized branches of plant ecology which will examine the essential interactions between plants and their environment. The focus of the course will be threefold: first, theoretical considerations providing students a solid background from which to examine plant environment interactions; second, the dynamic processes that continually shape the structure of plant communities; third, methodologies for sampling and analyzing plant communities. At least two field trips can be anticipated.
- BIOS 4844/G Plant Taxonomy** 4 cr.  
Prerequisite: BIOS 2014. Identification and ecology of local flora as well as the classification and evolution of vascular plants. Numerous field trips will be scheduled. Two hours of lecture and four hours of laboratory. A field service fee is required in this course.
- BIOS 4913/G Zoogeography** 3 cr.  
Prerequisite: BIOS 3653 or consent of department. Global patterns of animal distribution: present and past.
- BIOS 4914/G Biology of Fishes** 4 cr.  
Prerequisite: BIOS 2014. In addition, BIOS 2954 and 3653 recommended. Life histories, adaptations, and ecology of fishes. Three hours lecture and four hours of laboratory. A field service fee is required in this course.
- BIOS 4924/G Herpetology** 4 cr.  
Prerequisite: BIOS 2014. Introduction to the study of morphology, adaptation, classification, distribution, and ecology of amphibians and reptiles. Field work and identification of North American groups and field studies of local fauna. Two hours of lecture and six hours of laboratory. A field service fee is required.
- BIOS 4934/G Marine Invertebrate Zoology** 4 cr.  
Prerequisite: consent of department. General study of the classification, structure, function, and ecology of marine and estuarine invertebrates, emphasizing field studies on the Louisiana Gulf Coast. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory. Summers only.
- BIOS 4944/G Invertebrate Zoology** 4 cr.  
Prerequisites: BIOS 2014 and 2114. Emphasis on morphology, systematics, physiology, embryology, evolution, and ecology. Three hours of lecture and three hours of laboratory. A field service fee is required in this course.
- BIOS 4954/G Biology of the Higher Vertebrates** 4 cr.  
Prerequisite: BIOS 2014 and three additional hours of biological sciences credit above the 1000-level. A study of morphology, adaptation, classification, distribution, and ecology of birds and mammals. Field work and identification of North American species. Three hours of lecture and four hours of laboratory. A field-service fee is required in this course.
- BIOS 4974/G Entomology** 4 cr.  
Prerequisite: BIOS 1081, BIOS 1083, and BIOS 2014. Morphology, physiology, and control (physical, biological, and chemical) of common insects. Three hours of lecture and three hours of laboratory. A field service fee is required in this course.
- BIOS 4994/G Marine Vertebrate Zoology** 4 cr.  
Prerequisite: BIOS 2954 or consent of department. General study of the marine chordates with particular emphasis on the fishes, including classification, structure, function, and ecology. Five weeks
- at the Louisiana Marine Consortium Coastal Laboratory. Summers only.
- BIOS 6003 Practicum In Conservation Biology** 3 cr.  
Prerequisite: consent of department. This course will expose students to hand-on problem-solving as part of an interdisciplinary team. Students will do projects in conservation management in small groups working with other appropriate team members from outside the department and/or the community. Team members can include other scientists such as geologists and geographers or professionals, land use planners, and curators.
- BIOS 6005 Contemporary Plant Science for Biology Teachers** 3 cr.  
Prerequisite: consent of department. Not available as credit for students enrolled in the graduate program in Biological Sciences. A series of lectures, demonstrations, discussions, and student projects designed to expose students to new areas of plant science and update participants in the classical aspects of botany. Topics will include: tissue culture, economic botany, microtechnique histology, and regulation of growth and development. Three hours of lecture.
- BIOS 6007 Cell and Molecular Biology for Teachers** 3 cr.  
Prerequisite: consent of department. Not available as credit for students enrolled in the graduate program in Biological Sciences. A series of lectures and demonstrations designed to expose students a basic background in the areas of cell and molecular biology using biochemical explanations when necessary. Topics will include cellular organelles and metabolism, biological macromolecules, construction and function of DNA, transcription and translation of proteins.
- BIOS 6013 Topics in Biochemistry and Physiology** 1 cr. min./4 cr. max.  
Prerequisite: consent of department. In-depth lectures and literature-based discussions on selected topics of current interest in biochemistry and physiology. Selected topics may include protein structure and function, metabolic pathways, regulation of enzyme activity, nucleic acids, endocrinology, osmoregulation and comparative biochemistry and physiology.
- BIOS 6022 Scientific Communication** 2 cr.  
Review of techniques for effective oral and written communication of scientific information, such as data, data analysis, conclusions, and hypotheses. Topics include organization and preparation of oral and poster presentations, data presentation in abstracts and manuscripts, and writing, revising, and editing abstracts, grants, and manuscripts. One hour of lecture and two hours of laboratory.
- BIOS 6023 Topics in Cellular and Molecular Biology** 1 cr. min./4 cr. max.  
Prerequisite: consent of department. In-depth lectures and literature-based discussions on selected topics in cellular and molecular biology. Selected topics may include regulation of cell cycle, cell-to-cell communication, cytoskeleton, cellular organelles, cell sorting, membrane function, structure and functions of nucleic acids, DNA replication, transcription and translation, and immunology.
- BIOS 6032 Reproductive Biology Seminar** 2 cr.  
Prerequisite: Consent of department. Students and faculty will discuss timely topics in reproductive biology. Graduate students will select current journal articles with the advice of the instructor and lead the discussion of those articles in the seminar. Two hours of discussion. May be repeated with the consent of the department.
- BIOS 6033 Topics in Marine Science** 1 cr. min./4 cr. max.  
Prerequisite: consent of department. In-depth lectures and literature-based discussions on selected topics of current interest in marine science. Credit given for Louisiana Marine Consortium

- (LUMCOM) courses which are offered for graduate credit only. Students should request a list of proposed offerings from the Department of Biological Sciences in the spring semester.
- BIOS 6043 Topics in Genetics and Development** 1 cr. min./4 cr. max.  
Prerequisite: consent of department. In-depth lectures and literature-based discussions on selected topics in genetics and development biology. Selected topics may include cytogenetics, structure and function of chromosomes, genetic recombination, microbial genetics, gamete structure and function fertilization, organogenesis and embryology.
- BIOS 6052 Systematics & Evolution Seminar** 2 cr.  
Prerequisite: Consent of the department. Students and faculty will discuss timely topics in systematics and evolution. Graduate students select current journal articles with the advice of the instructor and lead the discussion of those articles in the seminar. Two hour of discussion. May be repeated with consent of the department.
- BIOS 6053 Topics in Systematics and Evolution** 1 cr. min./4 cr. max.  
Prerequisite: consent of department. In-depth lectures and literature-based discussions on selected topics of current interest in systematics and evolution. Selected topics may include historical biogeography, evolutionary processes, population genetics, macroevolution, biochemical systematics and molecular evolution.
- BIOS 6062 Ecology and Evolution Seminar** 2 cr.  
Prerequisite: consent of department. Students and faculty will discuss timely topics in ecology and evolution. Graduate students will select current journal articles with the advice of the instructor and lead the discussion of those articles in the seminar. Two hours of discussion. May be repeated for credit with permission of the Department.
- BIOS 6063 Topics in Ecology and Environmental Science** 1 cr. min./4 cr. max.  
Prerequisite: consent of department. In-depth lectures and literature-based discussions on selected topics of current interest in ecology and environmental biology. Selected topics may include limnology and oceanography, environmental pollution, conservation biology, population ecology, physiological ecology and community ecology.
- BIOS 6073 Special Topics in Organismal Biology** 1 cr. min./4 cr. max.  
Prerequisite: consent of department. In-depth lectures and literature-based discussions on selected topics in organismal biology. Selected topics may include ichthyology, phylogenetic analysis, multivariate analysis, biological nomenclature and evolution of sexual reproduction.
- BIOS 6082 Conservation Biology Seminar** 2 cr.  
Prerequisite: consent of department. Students and faculty will discuss timely topics in Conservation Biology. Graduate students will select current journal articles with the advice of the instructor and lead the discussion of those articles in the seminar. Two hours of discussion. May be repeated for credit with permission of the Department.
- BIOS 6083 Topics in Conservation Biology** 1 cr. min./4 cr. max.  
Prerequisite: consent of department. In-depth lectures, literature based discussions, and laboratory or field exercises on selected topics on current interest and application in conservation biology. Topics may include endangered species, parasitic organisms and conservation biology, conservation of aquatic communities, conservation of plant biodiversity, and wetland restoration.
- BIOS 6090 Biological Problems** 1 cr. min./4 cr. max.  
Offered each semester. Independent studies by written approval of the departmental graduate program committee and the supervising professor. This course may not be taken under the direction of the student's thesis advisor. Students enrolled in the M.S. or Ph.D. programs in Biological Sciences may earn a maximum of four credit hours in this course.
- BIOS 6091 Graduate Seminar** 1 cr.  
Offered each semester. Students and faculty will discuss their research work or timely topics in biological sciences. One hour of lecture-discussion to be taken four times for credit.
- BIOS 6103 Molecular Biology** 3 cr.  
Prerequisites: consent of the department. A study of the molecular biology of gene expression in both prokaryotes and eukaryotes. This course will explore details of DNA replication, recombination, mutagenesis, DNA repair, the structure of viral, prokaryotic and eukaryotic genes, and the transcriptional control of gene expression. Selected examples from literature will be discussed.
- BIOS 6303 Cryobiology** 3 cr.  
Prerequisites: BIOS 4334, 4413, and CHEM 1017, 1018. Fundamental physiology as it applies to cells and tissues exposed to near-zero and sub-zero temperatures and to non-physiological solutions and to crystalline and vitrified solutions. Spring semester and even years.
- BIOS 6313 Reproductive Biology** 3 cr.  
Prerequisites: BIOS 3104 and one of the following: BIOS 4334, BIOS 4353, BIOS 4413, or consent of department. A study of the mechanisms regulating reproductive biology with an emphasis on mammalian species. Topics include, but are not limited to endocrine function, male and female reproduction physiology, spermatogenesis, oogenesis, fertilization, implantation, parturition and assisted reproductive techniques.
- BIOS 6353 Environmental Physiology of Animals** 3 cr.  
Prerequisite: BIOS 3354 or equivalent. An examination of physiological mechanisms animals employ to cope with environmental challenges. Mechanisms and their controls will be studied at multiple levels of organization. Topics may include physiological and biochemical responses to energetic, osmotic and thermal stress as they occur in natural and altered environments.
- BIOS 6513 Systematics** 3 cr.  
Prerequisite: consent of the department. A review of the principles, practices, and applications of systematics. Topics may include systematic theory, species concepts, speciation, phylogeny reconstruction, principles and practices of classification, conservation units, and historical biogeography. Three hours of lecture and discussion.
- BIOS 6603 Conservation Ecology** 3 cr.  
Prerequisite: General Ecology and consent of the department. Selected topics in advanced ecology and their application to conservation. Topics may include demography, population declines and disappearances, metapopulations, habitat fragmentation, factors affecting biodiversity, effects of biodiversity on stability and ecosystem function, invasive species, disease ecology, global change, and restoration ecology. Three hours of lecture and discussion.
- BIOS 6653 Ecology for Teachers** 3 cr.  
Prerequisite: Consent of department. Not available for credit for students enrolled in the graduate program in Biological Sciences. An exploration of major concepts in modern ecology for middle- and high-school science teachers. Each concept is introduced with a lecture/discussion covering its theoretical background and significance, followed by practical exercises that provide the basis for developing grade-appropriate exercises that can be implemented

in the classroom. Topics include adaptation to the environment, population dynamics, community ecology, and energy flow in ecosystems.

**BIOS 6953 Entomology for Teachers** 3 cr.  
Prerequisite: Consent of department. Not available for credit for students enrolled in the graduate program in Biological Sciences. A course for science teachers designed to develop expertise in entomology and the use of insects for illustrating a range of concepts in biology. Topics covered will include insect structure, function, diversity, ecology, and behavior, and will include practical exercises that can provide the basis for grade-appropriate exercises to be implemented in the classroom.

**BIOS 7000 Thesis Research** 1 cr. min./9 cr. max.  
Offered each semester. By arrangement with the graduate adviser. To be repeated for credit until thesis is accepted. Three hours of laboratory work per credit hour. Section number will correspond with credit to be earned.

**BIOS 7040 Examination or Thesis Only No credit** 0 cr.  
Open to students in the thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

**BIOS 7050 Dissertation Research** 1 cr. min./9 cr. max.  
Prerequisite: Approval of the candidate's guidance committee. Preparation of dissertation under the direction of the major professor and guidance committee. Section number will correspond with credit to be earned. May be repeated for credit until dissertation is accepted.

## Chemistry

**CHEM 1000 Freshman Seminar for Chemistry Majors** 1 cr.  
This course is required for all freshman chemistry majors and transfer students and is restricted to chemistry majors. Others may enroll only with permission of the department. Weekly discussion course to familiarize freshman chemistry majors with career options, current research topics in the chemical sciences, chemical safety issues, scientific ethics, literature resources, and other topics related to the study of chemistry. Pass/Fail grading. One hour of seminar per week.

**CHEM 1007 General Chemistry Laboratory I** 1 cr.  
Offered each semester. Prerequisite: Credit for or concurrent enrollment in CHEM 1017. General chemistry laboratory covering basic principles of laboratory investigations and illustrations of the course content of general chemistry. The lab supplements and reinforces CHEM 1017 and concurrent enrollment in CHEM 1017 is recommended. Three hours of laboratory.

**CHEM 1008 General Chemistry Laboratory II** 1 cr.  
Offered each semester. Prerequisite: Credit in CHEM 1007 and credit for or concurrent enrollment in CHEM 1018. Second semester of general chemistry laboratory covering basic principles of laboratory investigations and illustrations of the course content of general chemistry. The lab supplements and reinforces CHEM 1018 and concurrent enrollment in CHEM 1018 is recommended. Three hours of laboratory.

**CHEM 1012 Introductory Chemistry** 3 cr.  
Prerequisite: Eligibility for enrollment in MATH 1115 or 1125. An introduction to basic chemistry concepts based on issues relevant to society. Intended for non-science majors, including education

majors not specializing in science. Credit for both CHEM 1012 and 1017 will not be allowed.

**CHEM 1014 General Chemistry for Engineers** 4 cr.  
Spring and Fall semester. Prerequisite: successful completion of (or exemption from) MATH 1115 or 1125; or, a minimum math ACT score of 23. Also, students are expected to have had chemistry in high school. A course in the fundamentals of chemistry of particular interest to students in engineering programs. Credit cannot be earned for CHEM 1014 and either CHEM 1017 or 1018.

**CHEM 1017 General Chemistry I** 3 cr.  
Offered each semester. Prerequisite: successful completion of (or exemption from) MATH 1125 or 1115; or a minimum math ACT score of 23. Chemistry 1017 is a course in the fundamentals of chemistry. It is recommended that students who take this course also take CHEM 1007. Students whose curricula require only a year of college chemistry will normally take CHEM 1018 and CHEM 1008 following satisfactory completion of this course. Three hours of lecture.

**CHEM 1018 General Chemistry II** 3 cr.  
Offered each semester. Prerequisite: CHEM 1017. A continuation of CHEM 1017. Inorganic chemistry with selected topics in organic chemistry. It is recommended that students who take this course also enroll in CHEM 1008.

**CHEM 1023 Introductory Chemistry Laboratory** 2 cr.  
Offered each semester. Prerequisite: Credit in CHEM 1014, credit for or concurrent enrollment in CHEM 1018, or consent of department. Introductory lab for students who will not continue to more advanced chemistry labs. A study of basic principles of laboratory investigations and illustrations of the chemical behavior described in General Chemistry. One hour of lecture and three hours of laboratory. Credit cannot be earned for both CHEM 1023 and CHEM 1028.

**CHEM 1028 General Chemistry Laboratory** 3 cr.  
Offered each semester. Prerequisite: Credit for or concurrent enrollment in CHEM 1018 or consent of department. Introductory chemistry laboratory for students who will be taking more advanced chemistry laboratory courses or for those who wish a more rigorous course. A study of basic principles of laboratory investigations and illustrations of the course content of general chemistry courses. One hour of lecture and six hours of laboratory. Credit cannot be earned for both CHEM 1023 and CHEM 1028.

**CHEM 1110 Introduction to Forensic Science** 3 cr.  
Prerequisite: ENGL 1157. An overview of forensic science suitable for students in all majors. Topics include the crime scene, physical evidence, organic and inorganic analysis, fingerprints, firearms and toolmarks, and other relevant issues. Three hours of lecture.

**CHEM 2025 Quantitative Analysis Laboratory** 3 cr.  
Offered each semester. Prerequisites: CHEM 1028 or CHEM 1008 and credit or concurrent registration in CHEM 2117 or permission of department. Explorations of quantitative analysis with emphasis on separation procedures, chromatography, and spectroscopy. One hour of lecture and six hours of laboratory.

**CHEM 2026 Organic Synthesis Laboratory** 2 cr.  
Offered all semesters. Prerequisites: CHEM 1028 or CHEM 1008 and credit or concurrent enrollment in CHEM 2218. Emphasis on synthesis of organic compounds and analysis of products. Six hours of laboratory.

**CHEM 2117 Quantitative Analysis** 3 cr.  
Offered each semester. Prerequisite: CHEM 1018. A course in the theory of gravimetric, titrimetric, colorimetric, chromatographic, and spectrometric separations and analysis.

- CHEM 2217 Organic Chemistry I** 3 cr.  
Offered each semester. Prerequisite: CHEM 1018. CHEM 2217 is an introduction to the chemistry of carbon with emphasis on the nomenclature and reactions of alkanes, alkenes, and alkynes. Emphasis is placed on the mechanistic interpretation and the stereochemical outcome of the major organic reaction pathways. Infrared and nuclear magnetic resonance spectroscopy are also introduced. Three hours of lecture and one hour of recitation.
- CHEM 2218 Organic Chemistry II** 3 cr.  
Offered each semester. Prerequisite: CHEM 2217. CHEM 2218 is the continuation of CHEM 2217. Emphasis is placed on the reactivity of the major functional groups encountered in organic chemistry. Topics will include the reactions of aromatic compounds, carbonyl compounds and amines. The course will also introduce the organic chemistry of amino acids and proteins, lipids, carbohydrates, and nucleic acids. Three hours of lecture and one hour of recitation.
- CHEM 3027 Advanced Synthesis Laboratory** 3 cr.  
Fall Semester. Prerequisites: CHEM 2026, 2218 and completion of or registration in CHEM 3411. A Laboratory course of techniques and skills beyond those learned in CHEM 2026 including an examination of principles and approaches used in the practice of synthetic chemistry. One hour of lecture and six hours of laboratory.
- CHEM 3094 Undergraduate Research** 4 cr.  
Offered each semester. Prerequisites: consent of department and departmental approval of research arrangements prior to registration. Individual research under the guidance of a departmental faculty member. A written report of the work carried out will be submitted by the student to the faculty of the departmental division in which the research is done. The student must also present a seminar on his/her research. May be taken twice for credit.
- CHEM 3096 Directed Study in Advanced Chemical Topics** 1 cr. min./3 cr. max.  
Directed Study in Advanced Chemical Topics
- CHEM 3099 Senior Honors Thesis** 1 cr. min./6 cr. max.  
Offered each semester. Prerequisite: consent of department and Honors Program director. Senior honors thesis research in chemistry under the direction of a faculty member. To be repeated until thesis is accepted. Section number will correspond with credit to be earned.
- CHEM 3110 Forensic Chemistry** 3 cr.  
Prerequisites: CHEM 1110, 2117, 2025, 2218. The application of chemical knowledge and analysis techniques to crimes and crime scenes. Includes topics such as sampling, data quality, calibration, sample preparation, and analytical techniques. Three hours of lecture.
- CHEM 3310 Principles of Physical Chemistry** 3 cr.  
Prerequisite: CHEM 1018, MATH 2111 or MATH 2108, and credit or concurrent enrollment in PHYS 1062 or 1032. An introduction to the principles and techniques of physical chemistry including thermodynamics, chemical kinetics, quantum mechanics, and atomic and molecular spectroscopy. Three hours of lecture.
- CHEM 3411 Descriptive Inorganic Chemistry** 3 cr.  
Prerequisite: CHEM 1018. CHEM 2218 is recommended. A survey of modern inorganic chemistry as it relates to the periodic table in general, emphasizing the reactivity, mechanisms, and structure of elements and their compounds.
- CHEM 3610 Introduction to Materials Science** 3 cr.  
Prerequisite: CHEM 1017. Physical and chemical properties of solids are explored with respect to chemical bonding. Topics include: microstructures; classes of materials; magnetic, electronic, optical, and thermal properties. Three hours of lecture.
- CHEM 4028/G Physical Chemistry Laboratory** 3 cr.  
Spring semester. Prerequisites: Either CHEM 1028 or CHEM 1008 and at least one of the following taken as a prerequisite or co-requisite: CHEM 3310, CHEM 4310 or CHEM 4311. A laboratory course concentrating on the experimental study of thermodynamics and kinetics of chemical reactions, as well as spectroscopic, magnetic, and electric properties of substances. This course contains a core component in oral communication. Satisfactory performance in this core will satisfy the requirement of demonstrating competence in oral communication. One hour of lecture and six hours of laboratory per week.
- CHEM 4030/G Laboratory Methods in Instrumental Analysis** 3 cr.  
Fall semester. Prerequisite: credit in CHEM 2025 and credit or registration in CHEM 4110. One hour of lecture and six hours of laboratory. Successful completion of this course satisfies the general degree requirement for oral competency.
- CHEM 4110/G Instrumental Analysis** 3 cr.  
Prerequisite: Credit in CHEM 2117 and credit or registration in CHEM 3310. An introduction to physicochemical and industrial methods of analysis.
- CHEM 4210/G Intermediate Organic Chemistry** 3 cr.  
Spring semester. Prerequisite: CHEM 2218. A broad selection of topics such as stereochemistry, reaction mechanisms, synthesis, spectroscopy, literature searching, and nomenclature.
- CHEM 4310/G Physical Chemistry** 4 cr.  
Fall semester. Prerequisites: CHEM 1018, PHYS 1062 and MATH 2112. Principles of theoretical chemistry. Four hours of lecture.
- CHEM 4311/G Physical Chemistry** 4 cr.  
Spring semester. Prerequisites: CHEM 1018, PHYS 1062 and MATH 2112. Principles of chemical thermodynamics and kinetics. Four hours of lecture.
- CHEM 4410/G Advanced Physical Inorganic Chemistry** 3 cr.  
Prerequisite: CHEM 3310. A study of the fundamental physical concepts and theory of atomic structure, group theory, bonding, magnetism, and spectroscopy essential to a concrete understanding of modern inorganic chemistry.
- CHEM 4510/G Biochemistry I** 3 cr.  
(CHEM 4510 and BIOS 4103 are cross-listed) Prerequisite: CHEM 2218 and BIOS 2114 or consent of department. This class examines major classes of biologically important molecules, including their chemical and physical properties, how simple precursors are used to make complex macromolecules, and the function of these macromolecules. Students may not receive credit for both CHEM 4510 and BIOS 4103. Three hours of lecture and one hour of recitation.
- CHEM 4511/G Biochemistry II** 3 cr.  
(CHEM 4511 and BIOS 4113 are cross-listed). Prerequisite: CHEM 4510 or BIOS 4103 or consent of department. A survey of important biochemical pathways with special emphasis on regulation and integration of metabolism. Students may not receive credit for both CHEM 4511 and BIOS 4113. Three hours of lecture and one hour of recitation.
- CHEM 6005 Experimental Chemistry for Teachers I** 3 cr.  
Prerequisite: consent of department. A course for science teachers in the development and utilization of demonstration experiments for teaching principles of chemistry including laboratory experience with materials and techniques necessary for such experimentation. Two hours of lecture and two hours of laboratory.
- CHEM 6006 Experimental Chemistry for Teachers II** 3 cr.  
Prerequisite: consent of department. A course for science teachers in the development and utilization of demonstration experiments

- for demonstrating the properties of the chemical elements and their compounds including laboratory experience with materials and techniques necessary for such experimentation. Two hours of lecture and two hours of laboratory.
- CHEM 6007 Experimental Chemistry for Teachers III** 3 cr.  
Prerequisite: consent of department. A course for science teachers that provides an opportunity to participate in contemporary scientific research in chemistry and materials science. Includes individual laboratory research under the guidance of a UNO faculty member and teaching resource meetings which develop methods of incorporating modern research concepts into classroom curricula. A written report and seminar presentation are required. With departmental consent, this course may be taken twice for credit.
- CHEM 6090 Specialized Readings in Advanced Chemistry** 1 cr.  
Offered each semester. Prerequisite: consent of department. Individually directed readings in specialized areas of chemistry with frequent consultations with the instructor. When sufficient enrollment permits a seminar and/or lecture format may be utilized. Credit for this course is not acceptable toward an M.S. degree in chemistry. A maximum of four credits may be obtained but no more than two credits per semester.
- CHEM 6091 Specialized Readings in Advanced Chemistry** 1 cr.  
Offered each semester. Prerequisite: consent of department. Individually directed readings in specialized areas of chemistry with frequent consultations with the instructor. When sufficient enrollment permits a seminar and/or lecture format may be utilized. Credit for this course is not acceptable toward an M.S. degree in chemistry. A maximum of four credits may be obtained but no more than two credits per semester.
- CHEM 6092 Specialized Readings in Advanced Chemistry** 1 cr.  
Offered each semester. Prerequisite: consent of department. Individually directed readings in specialized areas of chemistry with frequent consultations with the instructor. When sufficient enrollment permits a seminar and/or lecture format may be utilized. Credit for this course is not acceptable toward an M.S. degree in chemistry. A maximum of four credits may be obtained but no more than two credits per semester.
- CHEM 6093 Specialized Readings in Advanced Chemistry** 1 cr.  
Offered each semester. Prerequisite: consent of department. Individually directed readings in specialized areas of chemistry with frequent consultations with the instructor. When sufficient enrollment permits a seminar and/or lecture format may be utilized. Credit for this course is not acceptable toward an M.S. degree in chemistry. A maximum of four credits may be obtained but no more than two credits per semester.
- CHEM 6095 Seminar** 1 cr.  
Offered each semester. All graduate students will be expected to participate in a report and discussion group in the field of chemistry of particular interest to them. May be taken for credit a maximum of six times.
- CHEM 6110 Advanced Chemical Analysis** 3 cr.  
Prerequisite: CHEM 4110 or equivalent. A discussion of the fundamental principles of analytical chemistry.
- CHEM 6111 Advanced Analytical Chemistry** 3 cr.  
Prerequisite: consent of department. A discussion of modern techniques of chemical analysis of inorganic and organic compounds, including spot tests, functional group analysis, biochemical methods, and less common volumetric techniques.
- CHEM 6112 Physical Methods in Analytical Chemistry** 3 cr.  
Prerequisite: CHEM 4110 or consent of department. Recent advances in physiochemical methods of analysis. CHEM 6112 covers electroanalytical techniques, including discussion of polarography, chronopotentiometry, coulometry, voltammetry, amperometry, electrode reactions, and electrode processes.
- CHEM 6113 Physical Methods in Analytical Chemistry** 3 cr.  
Prerequisite: Chemistry 4110 or consent of department. Recent advances in physiochemical methods of analysis. CHEM 6113 includes a discussion of spectroscopic methods, such as IR, UV, Visible, X-rays, Mass Spectrometry, Mossbauer, EPR, NMR, Fluorescence, and Atomic Absorption.
- CHEM 6115 Special Topics in Analytical Chemistry** 1 cr. min./3 cr. max.  
In-depth study of various topics of current importance in Analytical Chemistry. Hours of credit will be specified each semester. A student may accumulate a maximum of six credit hours for this course.
- CHEM 6116 Advanced Techniques in NMR Spectroscopy** 3 cr.  
Prerequisite: CHEM 6112 or 6113 or consent of the department. Theoretical and experimental study of modern NMR spectroscopy. Topics include instrumentation, data acquisition and interpretation theory of chemical shifts, spin-spin coupling phenomena, nuclear Overhauser effects, relaxation equations and measurements, multidimensional experiments for molecular structural identification, techniques of solid samples and recent development these areas.
- CHEM 6117 Advanced Mass Spectrometry** 3 cr.  
Prerequisite: CHEM 4110 or consent of department. A detailed examination of the theory, principles, and instrumentation of modern mass spectrometry. Three hours of lecture.
- CHEM 6210 Advanced Organic Chemistry** 3 cr.  
Prerequisite: CHEM 4210 or equivalent. An advanced treatment of selected areas of organic chemistry, including the literature of organic chemistry, structural concepts, analysis, reactions, and theory.
- CHEM 6211 Synthetic Organic Chemistry** 3 cr.  
Prerequisite: CHEM 6210 or equivalent. A study of the scope and limitations of useful reactions, including strategy for the design of multistep syntheses of complex molecules.
- CHEM 6212 Structural Organic Chemistry** 3 cr.  
Prerequisite: CHEM 6210 or equivalent. The elucidation of the three-dimensional structure of organic compounds; theory and practice.
- CHEM 6213 Physical Organic Chemistry** 3 cr.  
Prerequisites: CHEM 4311 and 6210 or equivalents. The study of the energy relationships and mechanistic principles by which organic reaction processes are described and understood.
- CHEM 6214 Advances in Organic Chemistry** 3 cr.  
Prerequisite: CHEM 6210 or equivalent. An examination of recent trends in various areas of organic chemistry.
- CHEM 6215 Organic Laboratory Preparations** 2 cr.  
Prerequisites: CHEM 2027 or its equivalent and consent of department. Training in advanced synthetic techniques of organic chemistry.
- CHEM 6310 Advanced Thermodynamics and Kinetics** 3 cr.  
Prerequisite: CHEM 4311 or equivalent. An advanced treatment of the fundamental principles of thermodynamics and chemical kinetics.
- CHEM 6311 Statistical Mechanics** 3 cr.  
Prerequisites: CHEM 6310 and 6312 or equivalent. Methods of statistical mechanics and the application of these methods to the theoretical treatment of chemical problems.

- CHEM 6312 Chemical Bonding and Molecular Spectroscopy** 3 cr.  
Prerequisite: CHEM 4310 or equivalent. Introduction to quantum chemistry, theoretical and applied treatment of rotational, vibrational, electronic, and resonance spectroscopy.
- CHEM 6314 Quantum Chemistry** 3 cr.  
Prerequisites: CHEM 6310 and 6312 and consent of department. The basic principles and methods of quantum mechanics. Applications to atomic and molecular systems.
- CHEM 6316 Special Topics in Physical Chemistry** 3 cr.  
Various topics of current interest will be presented each semester. Three credits per semester; may be taken twice for credit.
- CHEM 6410 Advanced Comprehensive Inorganic Chemistry** 3 cr.  
Prerequisites: CHEM 4310, 4311 and 4410 or equivalents approved by department. A comprehensive treatment of general bonding theory, the chemistry of the nontransitional elements, and the chemistry of the transition elements including the chemistry and theoretical aspects of coordination compounds.
- CHEM 6411 Advanced Comprehensive Inorganic Chemistry** 3 cr.  
Prerequisites: CHEM 4310, 4311 and 4410 or equivalents approved by department. A comprehensive treatment of general bonding theory, the chemistry of the nontransitional elements, and the chemistry of the transition elements including the chemistry and theoretical aspects of coordination compounds.
- CHEM 6412 Modern Asp Bonding Theory** 3 cr.  
Prerequisites: at least one semester of basic quantum theory, applied group theory (or its equivalent), and consent of department. A comprehensive course in which the advanced student is instructed in the quantitative aspects of ligand field and molecular orbital theories.
- CHEM 6496 Special Topics in Advanced Inorganic Chemistry** 1 cr. min./3 cr. max.  
Various topics of special interest will be presented each semester. Section number will correspond with credit to be earned. A student may accumulate a total of six credit hours for various offerings of this course.
- CHEM 6510 Structural Biochemistry** 3 cr.  
Prerequisite: Chemistry 4510 or Biological Sciences 3104, or equivalents approved by the department of chemistry. A comprehensive treatment of protein/enzyme structure and function, including catalysis, mechanisms of regulation, sequence/function relationships, and structural determination.
- CHEM 6511 Industrial Chemistry: Principles** 3 cr.  
Prerequisite: applicancy status in Ph.D. program or consent of department. Extensive examination of four or five case studies of authentic industrial processes from conception to commercial viability. The course will orient students to the various developmental phases involved in industrial scale-up and will provide a vehicle for illustrating the transformation of basic chemical principles into economically feasible industrial chemical processes.
- CHEM 6512 Industrial Chemistry: Polymers** 3 cr.  
Prerequisite: applicancy status in Ph.D. program or consent of department. A comprehensive review of the synthesis and physical properties of organic, inorganic, and biochemical macromolecules with particular emphasis on modern commercial applications.
- CHEM 6610 Characterization of Materials** 3 cr.  
Prerequisites: 4310 and 4410 or with consent of the department. Comprehensive treatment of the various characterization methods used in modern materials chemistry including crystallography, diffraction methods, electron and probe microscopies, bulk magnetic, transport, optical and thermal properties, surface characterization, and methods for compositional analysis.
- CHEM 6611 Materials Processing** 3 cr.  
Prerequisites: 2218, 3411, and 4410 or with consent of the department. Comprehensive treatment of the various synthetic methods used in modern materials chemistry including coprecipitation, microemulsions, sol-gel processing, electrochemical deposition, hydrothermal technique, organic solution growth, surfactant template technique, molten salt method, VLS growth and other methods for the preparation of advanced materials.
- CHEM 6696 Special Topics in Materials Chemistry** 1 cr. min./3 cr. max.  
Prerequisites: CHEM 6610 or with consent of the department. In-depth study of various topics of current importance to Materials Chemistry.
- CHEM 7000 Thesis Research** 1 cr. min./9 cr. max.  
Offered each semester. To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.
- CHEM 7025 Procedures and Problems in Chemical Research** 1 cr. min./9 cr. max.  
Offered each semester. Students who receive six hours of credit in Chemistry 7000 cannot obtain more than nine hours credit in this course. Open only to students of proven ability or exceptional potential. A study of experimental research methods, the design and execution of experiments, and the analysis of experimental data. Section number will correspond with credit to be earned.
- CHEM 7040 Examination or Thesis Only** 0 cr.  
No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.
- CHEM 7050 Dissertation Research** 1 cr. min./9 cr. max.  
Offered each semester. Prerequisite: six credits in CHEM 7000 or 7025. Section number will correspond with credit to be earned. To be repeated for credit until dissertation is accepted.

## Chinese

- CHIN 1001 Basic Chinese** 3 cr.  
A sequence of courses for beginners that aims at the acquisition of the four basic language skills: speaking, understanding, reading, and writing. The mastery of the basic language structures will be achieved through aural-oral exercises and practice. The Chinese writing system will be introduced from the beginning.
- CHIN 1002 Basic Chinese** 3 cr.  
A sequence of courses for beginners that aims at the acquisition of the four basic language skills: speaking, understanding, reading, and writing. The mastery of the basic language structures will be achieved through aural-oral exercises and practice. The Chinese writing system will be introduced from the beginning.
- CHIN 2001 Intermediate Chinese** 3 cr.  
Prerequisite: CHIN 1002 or consent of instructor. Continuation of all four basic language skills: speaking, understanding, reading, and writing. This course includes the presentation and discussion of cultural material such as magazines, films, records, and other audio-visual items.
- CHIN 2002 Intermediate Chinese** 3 cr.  
Prerequisite: CHIN 2001 or consent of instructor. Continuation of the development of all four basic language skills: speaking, understanding, reading, and writing. The course includes the presentation and

discussion of cultural material such as magazines, films, records, and other audio-visual items.

## **Cooperative Education – Business Administration Majors**

**COBA 1 Cooperative Education For Business Administration Majors** 0 cr.  
Prerequisites: acceptance into the Cooperative Education Program and by an employing organization.

## **Cooperative Education – Education Majors**

**COED 1 Cooperative Education For Education Majors** 0 cr.  
Prerequisites: acceptance into the Cooperative Education Program and by an employing organization

## **Cooperative Education – Engineering Majors**

**COEN 1 Cooperative Education For Engineering Majors** 0 cr.  
Prerequisites: acceptance into the Cooperative Education Program and by an employing organization.

## **Cooperative Education – Interdisciplinary Studies Majors**

**COID 1 Cooperative Education For IDS Students** 0 cr.  
Prerequisites: acceptance into the Cooperative Education Program and by an employing organization.

## **Cooperative Education – Liberal Arts Majors**

**COLA 1 Cooperative Education for Liberal Arts Majors** 0 cr.  
Prerequisites: acceptance into the Cooperative Education Program and by an employing organization.

## **Cooperative Education – Science Majors**

**COSC 1 Cooperative Education for Science Majors** 0 cr.  
Prerequisites: acceptance into the Cooperative Education Program and by an employing organization.

## **Computer Science**

General prerequisite: students may not enroll in any Computer Science course unless they have received credit for, or are eligible to enroll in, English 1157.

**CSCI 1000 Introduction to Computers** 3 cr.  
Prerequisite: eligibility for enrollment in MATH 1115. Majors in the College of Sciences may not use this course for science elective credit. Other majors should consult with their colleges concerning use of this course toward degree credit. This course is an introduction to what computers are and how they can be used. A major emphasis is on providing hands-on laboratory experience using software packages such as word processing, spreadsheets, and database management systems. Lecture topics include history of computers, organization of a computer system, computer terminology, input-output devices and media, software development and programming, future trends, and effects on human society.

**CSCI 1001 Introduction to Information Systems & Technology** 3 cr.  
Introduction to three foundational disciplines of the information technology age: electrical and computer engineering, computer science, and management information systems (MIS). Students will be provided with an overview of the three disciplines and how they interact to form a new discipline-information systems and technology. This course will be cross-listed with ENEE 1001 and MANG

1001. Students taking CSCI 1001 cannot receive credit for ENEE 1001 and MANG 1001. Also, this course may not be used to satisfy UNO's general degree requirement for computer literacy and may not be taken for credit in the Electrical Engineering program. Prerequisite: None"

**CSCI 1060 Introduction to Programming** 3 cr.  
Offered each semester and summer session. Prerequisite: MATH 1115 with a grade of C or better recommended or consent of department. Introduces and applies computer techniques needed to solve problems in a procedure-oriented language. Develops programming skill necessary for students to utilize the digital computer in carrying out computational assignments for other courses. Except as provided for in individual college policies a student may receive credit in only one of CSCI 1060, 1201, and 1583.

**CSCI 1201 Introduction to Programming in Fortran** 3 cr.  
Prerequisite: MATH 1115 or MATH 1125 with a grade of C or better recommended, or consent of department. Offered each semester and summer session. Introduces and applies computer techniques needed to solve problems in a high-level programming language such as Fortran. Develops programming skills necessary for students to utilize the digital computer in carrying out computational assignments for other courses. Except as provided for in individual college policies, a student may receive credit in only one of Computer Science 1060, 1201, 1203, 1205, and 1583. Not intended for Computer Science majors.

**CSCI 1203 Introduction to Programming in C** 3 cr.  
Prerequisite: MATH 1115 or MATH 1125 with a grade of C or better recommended, or consent of department. Offered each semester and summer session. Introduces and applies computer techniques needed to solve problems in a procedure-oriented language such as C. Develops programming skills necessary for students to utilize the digital computer in carrying out computational assignments for other courses. Except as provided for in individual college policies, a student may receive credit in only one of Computer Science 1060, 1201, 1203, 1205, and 1583. Not intended for Computer Science majors.

**CSCI 1205 Introduction to Programming in C++** 3 cr.  
Prerequisite: MATH 1115 or MATH 1125 with a grade of C or better recommended, or consent of department. Offered each semester and summer session. Introduces and applies computer techniques needed to solve problems in a high-level programming language such as C++. Develops programming skills necessary for students to utilize the digital computer in carrying out computational assignments for other courses. Except as provided for in individual college policies, a student may receive credit in only one of Computer Science 1060, 1201, 1203, 1205, and 1583. Not intended for Computer Science majors.

**CSCI 1581 Software Design and Development I Laboratory** 1 cr.  
Prerequisite: Concurrent registration in CSCI 1583 is required. Two hours of laboratory each week to accompany CSCI 1583. Applications, exercises, and explorations in methodologies, software design, and development.

**CSCI 1583 Software Design and Development I** 3 cr.  
Prerequisite: MATH 1125 with a grade of C or better or consent of department; concurrent registration in CSCI 1581 is required. An introduction to software design and development using an object-oriented approach. Topics include designing specifying implementing and testing elementary classes; developing simple algorithms in an object-oriented programming language; programming by contract; implementing fundamental structural relations between classes. Intended primarily for Computer Science majors. Three hours of lecture. Except as provided for in individual college

- policies a student may receive credit in only one of CSCI 1060, 1201, and 1583.
- CSCI 2025 Data Structures and Applications** 3 cr.  
Prerequisite: Computer Science 1205. Offered each semester. A continuation of Computer Science 1205. Data structures using an object-oriented language for solving scientific and engineering problems. Topics also include linear data structures, trees, graphs, and algorithm analysis. Not allowed for credit for computer science majors.
- CSCI 2103 Introduction to Object Orientation** 3 cr.  
Prerequisite: CSCI 1060, 1201, 1203, 1205 or 1583 with a grade of C or better. May not be used for degree credit by Computer Science majors. An introduction to object orientation in programming. The topics are: object orientation as a software design methodology, objects and their implementation using classes, canonical specification of classes, generic structures, inheritance, polymorphism, and application development using objects.
- CSCI 2120 Software Design and Development II** 3 cr.  
Prerequisites: CSCI 1583 and 1581; concurrent registration in CSCI 2121 is required. (The successor course CSCI 2125 has MATH 3721 as a prerequisite; credit or concurrent registration in MATH 2721 is therefore recommended). A continuation of CSCI 1583 and 1581 with emphasis on algorithmic techniques and the structuring of larger systems. Topics include sorting and searching, recursion, inheritance and polymorphism, composition, abstract classes and interfaces, exception handling, and the model-view-controller structure. Three hours of lecture.
- CSCI 2121 Software Design and Development II Laboratory** 1 cr.  
Prerequisite: Concurrent registration in CSCI 2120 is required. Two hours of laboratory each week to accompany CSCI 2120. Applications, exercises, and explorations in methodologies for software design and development.
- CSCI 2125 Data Structures** 3 cr.  
Prerequisites: CSCI 2120, 2121, and MATH 3721. A continuation of CSCI 2120 and 2121 with emphasis on the design and implementation of structured data objects such as lists, stacks, queues, trees, and graphs; storage allocation for structured data objects.
- CSCI 2450 Machine Structure and Assembly Language Programming** 3 cr.  
Offered each semester. Prerequisites: CSCI 1060, 1201, 1203, 1205, or 1583. Assembly language programming and a survey of computer organization; structure of assemblers and loaders; introduction to operating systems.
- CSCI 2467 System Programming Concepts** 3 cr.  
Prerequisites: CSCI 2120 and 2450 or consent of department. Introduction to the concepts and tools used in systems programming. Detailed examination of computer architecture and computer system services from a user's point of view. Topics include accessing system services such as process control, file management, and input-output, through system calls and shells.
- CSCI 3080 Ethics in the Computing Profession** 1 cr.  
Prerequisites: CSCI 2125 and any CSCI 4000-level course or consent of department. Professional societies; codes of ethics; accreditation and certification; liability; software piracy; information and property; copyright; computer crime; data bank privacy; the Data Protection Act; monopoly and anti-trust questions; robotics and employment issues; VDT's and public health issues; and Trans-National Data Flow.
- CSCI 3090 Undergraduate Seminar** 1 cr.  
Offered each semester. Prerequisite: CSCI 2125 and any 4000-level CSCI course or consent of department. A seminar with topics presented by students, faculty, and guests. Students registering for the course must normally make a presentation to satisfy credit requirements. May be repeated for credit.
- CSCI 3097 Problems in Computer Science** 1 cr. min./3 cr. max.  
Offered each semester and summer session. Prerequisites: CSCI 2467, an average of B in all CS courses attempted, and the consent of the department. May be repeated up to a maximum of six credits but only three may be counted towards satisfying CS elective requirements. Directed effort on some relatively complex computer science projects. Section number will correspond with credit to be earned.
- CSCI 3099 Senior Honors Thesis** 1 cr. min./6 cr. max.  
Prerequisite: consent of department and Director of University Honors Program. Senior honors thesis research in computer science under the direction of a faculty member. May be repeated for a total of six credits. May not be used as a computer science elective.
- CSCI 3102 Introduction to the Theory of Computation** 3 cr.  
Prerequisites: CSCI 2125 and MATH 3721, or consent of department. An introduction to the theory of computation, including automata; computability, and complexity. Topics include automata and languages: decidability, reducability, and the Church-Turing thesis; complexity and intractability"
- CSCI 3150 File Structures and Network Programming** 3 cr.  
Prerequisite: CSCI 2125. An introduction to file structures, information models, and simple network programming. Topics include physical and logical organization of files, file processing, external data indexes such as B-trees, structured document/data formats such as XML, input/output models such as streams, and networking models such as sockets.
- CSCI 3301 Computer Organization** 3 cr.  
Prerequisites: CSCI 2120 and 2450 or consent of department. Basic sequential circuits; data representation and transfer; digital arithmetic; digital storage and accessing; control functions; input-output facilities; system organization. Students will be required to carry out digital circuit laboratory assignments.
- CSCI 3601 Introduction to Database Management Systems** 3 cr.  
Prerequisites: CSCI 2103 or 2120 and MATH 1140 or 2107 or 2111 or 3721. May not be used to satisfy the computer science elective requirement for the curriculum in Computer Science. A study of the modeling, design, and implementation of database systems. Topics include the entity-relationship model, the relational database model, object-oriented database models, also data normalization, data description, and retrieval using query languages such as SQL, and database software development using current CASE tools.
- CSCI 3611 Systems Analysis and Software Design** 3 cr.  
Prerequisite: CSCI 2120 or consent of department. Introduction to the analysis, design, and implementation of large software systems. Topics include methods and tools for the structuring and modular design of large systems; organization and techniques of team programming; design evaluation and validation. Computer Science majors may only take this course for free elective credit.
- CSCI 4000 Senior Comprehensive Exam** 0 cr.  
Prerequisite: Senior status and consent of department. This is a required, zero-credit course that CSCI seniors must take by their final semester in order to graduate. This course meets twice: the first time for an organizational meeting, and the second time to take a comprehensive CSCI exam.
- CSCI 4101/G Analysis of Algorithms** 3 cr.  
Prerequisite: CSCI 2125 or consent of department. Precise definition of the concept of an algorithm; techniques for algorithm verifica-

- tion; analyzing algorithm performance; applications to practical algorithms.
- CSCI 4125/G Data Models and Database Systems** 3 cr.  
Prerequisite: CSCI 3150 or consent of department. Methods, structures, and algorithms used for the organization, representation, and manipulation of large data bases; design and implementation of data base management systems.
- CSCI 4130/G Introduction to Cryptography** 3 cr.  
(MATH 4530 & CSCI 4130 are cross-listed) Prerequisites: MATH 3721 or consent of department. Elementary ciphers, Data Encryption Standard, Advanced Encryption Standard (Rijndael), Rivest-Adleman-Shamir (RSA) Encryption, and other topics in modern cryptography (subject to change as progress in field changes). This course is aimed at both CSCI and MATH majors, with both programming assignments and proofs as problem options.
- CSCI 4208/G Developing Advanced Web Applications** 3 cr.  
Prerequisite: CSCI 3150 or consent of the department. Design and implementation of advanced web-based applications. Topics covered typically include: HTTP protocol, multi-tier architectures, technologies for server-side and client-side implementation, database connectivity, XML, session handling, web services, scalability and security in the web context. Substantial programming project involving the development of a database-backed web application.
- CSCI 4210/G Introduction to Software Engineering** 3 cr.  
Prerequisite: CSCI 2125. Study of the software life-cycle that different applications go through, from conception to release and maintenance. Topics include: discovery of appropriate software life cycle for a given project: analysis, design and testing methods; risk management; tool support; process and product management; discussion of CMM and ISO-9003. Students will be required to develop a large project in a team setting.
- CSCI 4302 Computer System Design** 3 cr.  
(ENEE 3583 and CSCI 4302 are cross-listed) Prerequisites: Credit or registration in ENEE 3582 and ENEE 3512, or credit in CSCI 3301 and 3401, or consent of department. Concurrent enrollment in ENEE 3514 is required for students in the Computer Engineering Concentration. The design process of digital computer systems is studied from the instruction set level, system architecture level, and digital logic level. Topics include machine organization, register transfer notation, processor design, memory design, and input/output considerations. Includes semester project.
- CSCI 4311/G Computer Networks and Telecommunications** 3 cr.  
Prerequisites: CSCI 2125 and 2450 or consent of department. Overview of modern computer communication networks covering the theoretic multi-layered model from the top down with an emphasis on working protocols and algorithms. Topics include client-server model, common application protocols, connectionless and reliable transport, flow and congestion control, routing, switching, shared medium protocols, transmission media and network hardware.
- CSCI 4350/G Distributed Software Engineering** 3 cr.  
Prerequisite: CSCI 2467 or consent of the department. A study of the concepts, the methodology, the models, and methods that address problems in the development of distributed-software applications with emphasis on distributed-object models and components.
- CSCI 4401/G Principles of Operating Systems I** 3 cr.  
Prerequisites: CSCI 2467 or consent of department. An introduction to the organization of various types of operating systems; machine structure and the functions of an operating system; multiprogramming and time-sharing environments; memory management and resource allocation; virtual memory concepts; the file system and IO device handling; protection and error recovery.
- CSCI 4402/G Principles of Operating Systems II** 3 cr.  
Prerequisite: CSCI 4401 or consent of department. A continuation of CSCI 4401 with emphasis on time-sharing, multiprocessing, and virtual system environments; performance measurement and evaluation; system simulation; developments in Operating System theory.
- CSCI 4460/G Introduction to Network and System Administration** 3 cr.  
Prerequisite: CSCI 4401 or consent of the department. An introduction to network and system administration. Topics include processes and files; scripting; system installation; boot and shutdown; process management; daemons and services; devices and drivers; network fundamentals; network file systems; network services. Topics may also include kernel configuration; performance analysis; accounting and system logging; security. The course requires lab projects on dedicated departmental equipment.
- CSCI 4501/G Programming Language Structure** 3 cr.  
Prerequisite: CSCI 2125 or consent of department. A study of the concepts of programming languages as realized in a variety of commonly used languages, with emphasis on language definition and structure.
- CSCI 4510/G An Introduction to Translator Construction** 3 cr.  
Prerequisites: CSCI 4103 and 4501 or consent of department. The design and implementation of translators for programming languages. The course will cover the topics of lexical and syntactic analysis, translation, code generation, and code optimization, as well as the design and actual implementation of a compiler for a simple block-structured language such as a subset of Pascal or Ada.
- CSCI 4525/G Introduction to Artificial Intelligence** 3 cr.  
Prerequisite: CSCI 2125 or consent of department. Introduction to the problem domain of artificial intelligence and the methods used to solve those problems. Topics include knowledge representation, search strategies, and surveys of principal subareas of artificial intelligence such as expert systems, natural language processing, reasoning systems, games, learning, and vision. Programming assignments in a current artificial intelligence language will be required.
- CSCI 4567/G Bioinformatics I** 3 cr.  
Prerequisite: CSCI 2125 and MATH 2314 or consent of department. A "hands-on" programming and project oriented introduction to the algorithms and theory used in bioinformatics and cheminformatics, with applications in computational genomics. Statistical methods for identifying motifs in biological DNA, RNA and protein sequences. Includes hidden Markov models for identifying structure in stochastic sequential data (for gene finding and for feature extraction from protein-channel ionic current measurements) and discriminative methods for use in informatics, particularly kernel based classification methods such as Random Forest.
- CSCI 4568/G Bioinformatics II** 3 cr.  
Prerequisite: CSCI 2125 and MATH 2314 or consent of department. A "hands-on" programming and project oriented introduction to the algorithms and theory used in bioinformatics and cheminformatics, with applications in biomolecular engineering. Includes hidden Markov models for identifying structure in stochastic sequential data (for gene finding and for feature extraction from protein-channel ionic current measurements) and discriminative methods for use in informatics, particularly kernel based classification methods: such as Support Vector Machine and tree-based classification methods such as Random Forest.
- CSCI 4587/G Machine Learning Methods in Bioinformatics I** 3 cr.  
Prerequisites: CSCI 4567 or CSCI 4568 or consent of department. Machine Learning Methods for Signal Acquisition, Structure

- Identification, and Feature Extraction. Hidden Markov Models for structure identification and feature extraction, with applications in computational genomics and channel current power signal analysis.
- CSCI 4588/G Machine Learning Methods in Bioinformatics II** 3 cr.  
Prerequisite: CSCI 4567 or CSCI 4568, or consent of department. Machine learning methods for classification and clustering. Support vector machines for general, non-parametric, classification and clustering, with applications in Bioinformatics and Cheminformatics.
- CSCI 4595/G Topics in Bioinformatics** 3 cr.  
Prerequisite: CSCI 4567 or CSCI 4568, or consent of department. Upper-level course that builds on the programming-intensive applications of machine learning research in bioinformatics. Interdisciplinary (biophysics/biochemistry) applications of these results.
- CSCI 4601/G Data Base Management Systems** 3 cr.  
Prerequisite: CSCI 2120 or 2601 or consent of department. A study of the use, design, and implementation of data bases using data base management systems. Topics include current DBMS implementations and data description, manipulation, and inquiry languages.
- CSCI 4620/G Advanced Database Techniques** 3 cr.  
Prerequisite: CSCI 4125 or consent of department. The scope of the basic materials presented in CSCI 4125, Data Models and Database Systems, is expanded to include advanced theoretical aspects, design methodologies, implementation, and specialized applications. The materials presented include higher-order dependencies, object-relational and object-oriented data models, implementation techniques of Database systems and Java Database Connectivity (JDBC). On the applications side, the specific requirements imposed by Deductive DBS, Geographic Information Systems, Genome Data Management, Data Warehousing and Data Mining are discussed.
- CSCI 4621/G Computer Security** 3 cr.  
Prerequisites: CSCI 2125 and any one of the following: CSCI 4401 or 4125 or consent of department. Overview of security problems; physical security methods; security in multi-user systems; password mechanisms; terminal security; file security; encryption major approaches including both private- and public-key encryption methods; security in data bases access control methods and encryption; statistical databases; operating systems security; security kernels; and the Bell-Lapadula Model.
- CSCI 4623/G Introduction to Computer Forensics** 3 cr.  
Prerequisite: CSCI 4621 or consent of the department. An introduction to the theory and application of computer forensics, an important area of computer security concerned with the preservation and recovery of digital evidence. Topics include: types of digital evidence, obfuscation methods used to hide digital evidence, such as steganography and encryption, tools for data preservation and recovery, techniques for ensuring data security, and legal issues in the preservation, recovery, and presentation of digital evidence. The course will include a substantial lab component.
- CSCI 4631/G Principles of Computer Graphics** 3 cr.  
Prerequisite: CSCI 2125 and MATH 251I. Types of graphics hardware point plotting vector and raster technologies; techniques for defining images point vector and raster-based approaches; graphical data and program structures; image manipulation two- and three-dimensional transformations; techniques for producing perspective; hidden line removal; shading; clipping; and windowing. Applications in several fields.
- CSCI 4632/G Principles of Image Processing** 3 cr.  
Prerequisite: Computer Science 2125 and Mathematics 251I. Introduction to the analysis, implementation and application of digital imaging enhancement and restoration algorithms including fundamental gray-level processing procedures, spatial and frequency-domain filtering, color image processing, methods and transforms for multi-resolution image processing and compression, and elementary image analysis techniques such as segmentation, morphology, and object representation and recognition.
- CSCI 4690/G Topics in Applied Computing** 3 cr.  
Prerequisite: consent of department. Topics will vary from semester to semester. Offerings are of topical, pragmatic interest to computing practitioners. May not be used to satisfy the computer science elective requirement for the curriculum in Computer Science. (May be repeated for credit.)
- CSCI 4990/G Special Topics in Computer Science** 3 cr.  
Prerequisite: Consent of department. This is an advanced course whose topic changes from semester to semester. The prerequisites change as dictated by the topic. This course may be repeated once for credit.
- CSCI 6001 Software Development** 6 cr.  
Prerequisites: acceptance into the computer science graduate program; completion of an introductory computer programming course and MATH 2107 or 2111; and consent of instructor. This course is intended for students who have been accepted into the computer science graduate program but who arrive with limited course work in computer science. An intensive course with six contact hours a week plus programming assignments. Numerous topics are covered with a general emphasis on data structures and their application toward the modular development of large software systems. CSCI 6001 will not be counted toward fulfillment of degree requirements.
- CSCI 6090 Advanced Problems in Computer Science** 1 cr. min./3 cr. max.  
Prerequisite: consent of department. A projects course of independent work under the direction of a faculty supervisor whose sponsorship must be obtained in advance. May be repeated for up to a total of three credits. Cannot be used for degree credit by students who elect to fulfill the thesis degree requirements. Section number will correspond with credit to be earned.
- CSCI 6101 Theory of Algorithms and their Complexity** 3 cr.  
Prerequisites: CSCI 4101 or consent of department. Advanced study of algorithms and their complexity; the notions of time and space complexity; design methods, including divide and conquer, and the greedy method; polynomial and nondeterministic polynomial algorithms; the class of NP-complete algorithms.
- CSCI 6110 Applied Combinatorics and Graph Theory** 3 cr.  
Prerequisites: CSCI 4101 or consent of department. A study of combinatorial and graph theoretic techniques for complexity analysis. Includes generating functions, recurrence relations, Polya's theory of counting, planar directed and undirected graphs, and NP-complete problems of combinatorial or graph-theoretic nature. Application of techniques to analysis of algorithms in graph theory, as well as more general problems, such as sorting and searching.
- CSCI 6120 Theory of Computation** 3 cr.  
Prerequisites: CSCI 3102 or consent of department. A survey of formal models for computation. Includes Turing machines, partial recursive functions, recursive and recursively enumerable sets, the recursion theorem, Church's thesis, Godel numbering, computational complexity, uncomputability, intractability, and unsolvability.

- CSCI 6130 Data Encryption and Cryptology** 3 cr.  
Prerequisites: CSCI 4101 and MATH 2511 or consent of instructor. A study of the methods used in data encryption and related cryptologic problems. The history of early cryptography, including the Caesar shift, Vigenere table, Playfair square, and Enigma machines. Modern cryptographic problems, including the Data Encryption Standard, the key management problem, the public-key encryption, knapsack methods, number-theoretic methods, and the Rivest-Shamir-Adelman public-key cryptosystem, digital signature, the Digital Signature Standard, and cryptanalysis of knapsacks. Other cryptologic problems, including threshold schemes, zero-knowledge protocols, mental poker, and implementations on uniprocessor machines, networks, and parallel machines.
- CSCI 6140 Formal Languages** 3 cr.  
Prerequisite: CSCI 4103 or consent of department. Theory and application of formal language systems and automata. Emphasis will be placed on formal systems, the languages they generate, and techniques used to parse strings in those languages.
- CSCI 6230 Distributed Database Systems** 3 cr.  
Prerequisites: CSCI 4125 and 4311 or consent of department. A consideration of the problems and opportunities inherent in distributed databases on a network computer system. Includes distributed database design, optimization of access strategies, distributed concurrency control, recovery in distributed databases, distributed database administration, commercial systems.
- CSCI 6330 VLSI Circuit Design** 3 cr.  
Prerequisite: CSCI 4302 and 4401. A review of microelectronics and an introduction to MOS technology, basic electrical properties of MOS circuits, MOS circuit design processes, subsystem design and layout, scaling of MOS circuits, aspects of system design and timing, structured design and testing, MOS design projects.
- CSCI 6331 Advanced VLSI Design** 3 cr.  
Prerequisite: CSCI 6330 or consent of department. Design of large digital VLSI (Very Large Scale Integration) systems using modern CAD tools and state-of-the-art testing and characterization systems.
- CSCI 6340 Parallel Machines and non-von Neumann Architectures** 3 cr.  
Prerequisite: CSCI 4401 and 4302 or consent of department. An investigation of modern parallel processing computers and generally those designed on non-vonNeumann architectures.
- CSCI 6350 Development of Distributed Software** 3 cr.  
Prerequisite: CSCI 4401 or consent of the department. This course provides a systematic study of concepts, methodologies, models and methods that specifically address problems in the development of distributed software. The topics include architectural design for distributed applications, distributed object models, interface definition languages, concurrent task structuring, modeling for dynamic behavior, and static analysis and debugging for distributed programs.
- CSCI 6361 Topics in Mobile Computing** 3 cr.  
Prerequisite: CSCI 4401 or consent of department. This course provides an introduction to major topics in mobile computing, including software engineering issues for resource-constrained devices (e.g. cellular phones, palmtops), mobile databases, fault tolerance, service discovery, and wireless networking. The course has substantial theoretical and applied components. Students will be required to develop a non-trivial mobile application and prepare a class presentation on a topic in mobile computing.
- CSCI 6401 Concurrent Programming** 3 cr.  
Prerequisite: CSCI 4401 or consent of department. A systematic study of concepts, theories, methods and algorithms that specifically address problems in distributed programming. Topics include concurrency, interference, monitors and distributed programming issues, such as: synchronous and asynchronous message passing, remote procedure call, and rendezvous.
- CSCI 6410 Performance Analysis of Computer Systems** 3 cr.  
Prerequisite: CSCI 4401 or consent of the department. This course will examine models for the analysis of performance of computer systems. Topics include stochastic processes, discrete and continuous Markov chains, queuing models, and stochastic Petri models. These models will be applied to uni- and multiprocessor systems, including crossbar multiprocessor architectures, single- and multi-bus multiprocessors with external and distributed common memory.
- CSCI 6411 Topics in Fault Tolerance and Reliability** 3 cr.  
Prerequisite CSCI 4401 or consent of department. This course provides an introduction to major topics in fault tolerance and reliability, concentrating on distributed systems. These topics include failure modes, failure detection, logical time systems for distributed systems, N-version programming, checkpointing, optimistic and pessimistic logging schemes, software engineering issues in designing fault tolerant and reliable software, and schemes for reliable communication. Students will be required to develop a non-trivial reliable distributed application and prepare a class presentation on a topic in reliability .
- CSCI 6450 Principles of Distributed Systems** 3 cr.  
Prerequisite: CSCI 4401. A study of the concepts and design principles used in the construction of distributed computer systems. Topics include architecture and design goals; distributed time management; state and deadlock detection; name resolution; synchronization, mutual exclusion, and communication; collaborating servers; protection and security; error recovery.
- CSCI 6501 Formal Methods in Programming Languages** 3 cr.  
Prerequisite: CSCI 4501. Formal definitions and specifications for the semantics of programming languages including lambda-calculus, domain theory, and denotational descriptions of common programming language concepts.
- CSCI 6510 Compiler Construction** 3 cr.  
Prerequisite: CSCI 4510 or consent of department. Emphasis will be placed on the implementation of programming languages. Review of lexical, syntactic and semantic analysis. Topics will include code generation, optimization, run-time structures and support, attribute grammars, table-driven code generators, and data flow analysis.
- CSCI 6520 Visual Programming Languages** 3 cr.  
Prerequisite: CSCI 4101 or CSCI 4103 or CSCI 4501 or CSCI 4510 or consent of the department. An introduction to the theory, design and application of visual programming languages. Topics include: basic theory of such languages; overview of existing visual languages and their tools; visual grammars; design of graphical language elements; generalized spreadsheet language; applications and examples.
- CSCI 6595 Advanced Topics in Bioinformatics** 3 cr.  
Prerequisite: CSCI 4567 or CSCI 4568 AND CSCI 4587, 4588, or 4595, or consent of department. Advanced graduate course on programming-intensive applications of bioinformatics research involving Hidden Markov Models and Support Vector Machines. Interdisciplinary (biophysics/biochemistry/EE) applications of these results.
- CSCI 6601 Advanced Artificial Intelligence** 3 cr.  
Prerequisite: CSCI 4525. The area of artificial intelligence is one of the most diverse in the computing field. This course will go in-depth into one or more core AI sub-areas, as chosen by the instructor.

tor. Example sub-areas of study are machine learning, planning, natural language processing, automated deduction, etc.

**CSCI 6602 Expert Systems** 3 cr.  
Prerequisite: CSCI 4525 or consent of department. A study of the techniques, tools, and applications of expert systems. Topics include the architecture of expert systems, knowledge representation, drawing inferences, expert system tools, developing small and large knowledge systems, difficulties with expert system development, and the expert systems market. This course will also involve the design and implementation of a small expert system using a commercially available expert system shell.

**CSCI 6610 Automated Deduction** 3 cr.  
Prerequisite: Computer Science 2125, or consent of department. The course has two distinct parts. The first is mathematical logic, including Zero-Order Logic, First-Order Logic, semantic approaches and interpretations, and syntactic approaches and deductive apparatus. The second part concentrates on the algorithms for performing logic, and covers resolution refutation proofs in Zero- and First-Order Logics.

**CSCI 6621 Topics in Network Security and Forensics** 3 cr.  
Prerequisite: CSCI 4621 and CSCI 4623 or consent of department. A graduate course in advanced network security and computer forensics, emphasizing the development and application of tools and techniques for securing computer networks and preservation and recovery of digital evidence in networked environments. Topics include: basic issues in network security, network intrusion detection, honeypots and honeynets, and network forensics analysis. The course will include a substantial lab component.

**CSCI 6631 Advanced Computer Graphics** 3 cr.  
Prerequisite: CSCI 4631. Commonly-used data structures for graphics displays and raster scan graphics algorithms for line and circle drawing; polygon filling; antialiasing; curve fitting; surface fitting; two- and three-dimensional clipping, including clipping to arbitrary convex volumes; hidden-line and hidden-surface removal, including ray tracing; rendering, including local and global illumination models, texture shadows, transparency, and color effects.

**CSCI 6633 Computer Vision** 3 cr.  
Prerequisite: CSCI 4632. This course provides an overview of fundamental techniques for representing and recognizing visual patterns in two or three dimensions. Topics covered include segmentation and morphology, pattern recognition and classification, color- and text-based measures, motion analysis and optical flow, three-dimensional models from stereo imaging, knowledge-based systems and scene understanding.

**CSCI 6634 Data Visualization** 3 cr.  
Prerequisite: CSCI 4631 or consent of department. An introduction to standard techniques for displaying, exploring, and understanding non-visual data from medical, scientific, engineering, financial, or other domains. Topics covered will include visualization models, data representation, color-mapping and contouring, volume rendering, data transformations, modeling, image processing techniques, animation and user interaction.

**CSCI 6635 Theory & Computer Applications for Pattern Recognition** 3 cr.  
Prerequisites: CSCI 4525 and MATH 2511 or consent of the instructor. A study of the concepts behind pattern recognition and classification with applications in the analysis of various types of data. Topics include: design of a pattern recognition system, Bayesian decision theory, Maximum-likelihood estimation, nonparametric techniques, linear discriminant analysis, multilayer neural networks, non-metric techniques, stochastic methods, unsupervised learning and clus-

tering (including hierarchical and online clustering, component analysis, low dimensional representations).

**CSCI 6640 Computational Geometry** 3 cr.  
Prerequisite: CSCI 4101 or consent of department. Using the fields of pattern recognition, computer graphics, image processing, and algorithm design for source material, this course will concentrate on algorithms and techniques for geometric computations. Topics include: computation of convex hulls, decomposition of polygons, polygon approximation, planar visibility, and other current topics of research. Students will be required to design and analyze a number of algorithms.

**CSCI 6650 Intelligent Agents and Multi-Agent Systems** 3 cr.  
Prerequisite: CSCI 4525 or consent of the department. An investigation of computational systems in which several intelligent agents or agents and humans, interact. Includes architectures for building intelligent agents, design and implementation of multi-agent systems, inter-agent communication languages and protocols, problem-solving, planning, learning and adaptation techniques in multi-agent systems.

**CSCI 6990 Topics In Advanced Computer Science** 3 cr.  
Prerequisite: consent of department. This is an advanced graduate-level course whose topics change from semester to semester. The prerequisites change as dictated by the topic. This course may be repeated once for credit.

**CSCI 7000 Thesis Research** 1 cr. min./9 cr. max.  
To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.

**CSCI 7040 Examination or Thesis Only No Credit** 0 cr.  
Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

## Developmental Mathematics

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**DEVM 106 From Arithmetic to Algebra** 3 cr.  
Offered each semester. This is a developmental course for students who do not meet the minimum ACT requirement for MATH 1031. A brief study of the arithmetic of signed numbers and an introduction to polynomial algebra. Operations with real numbers and with polynomials; linear equations and inequalities and their graphs; systems of linear equations; special products and factoring; word problems. Developmental Mathematics 0106 will not be counted toward fulfillment of degree requirements.

**DEVM 107 Pre-College Algebra** 3 cr.  
Offered each semester. This is a developmental course for students who do not meet the minimum ACT requirement for MATH 1115 or MATH 1021. Selected topics include solving, graphing and writing linear equations, factoring, laws of exponents, simplifying rational and radical expressions and solving basic quadratic equations. DEVM 0107 will not be counted toward fulfillment of degree requirements.

## Urban and Regional Studies

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**DURB 6803 Proseminar in Urban History: Social and Cultural Change** 3 cr.  
DURB 6803, DURB 6805, and HIST 6803 are cross-listed) Prerequisite: DURB/URBN 6850 or HIST 4543 or consent of instructor.

Intensive reading in urban, social, and cultural change. Focus will be on American, European, and/or Third World urban development, from the founding of initial settlements to the present day. Discussions, conferences, short reports, and essays will be required. May be taken more than once for credit.

**DURB 6805 Proseminar in Urban History: Social and Cultural Change** 3 cr.

DURB 6803, DURB 6805, and HIST 6803 are cross-listed) Prerequisite: DURB/URBN 6850 or HIST 4543 or consent of instructor. Intensive reading in urban, social, and cultural change. Focus will be on American, European, and/or Third World urban development, from the founding of initial settlements to the present day. Discussions, conferences, short reports, and essays will be required. May be taken more than once for credit.

**DURB 6830 Urban Theory** 3 cr.

Prerequisite: MURP 6130, DURB 6850 or consent of instructor. The purpose of the course is to expose students to research dealing with urban development issues, including economic development, land use (in terms of physical space), and social impact. Students will also examine a variety of disciplinary perspectives and methodological approaches. These disciplines will include political science, geography, sociology, history, and economics.

**DURB 6850 Seminar in Urban Studies** 3 cr.

This course is designed to introduce graduate students to the history and evolution of urban studies as a field of endeavor. The methodological approaches, research questions, and theoretical constructs employed in urban studies will be examined. The course content is selected to examine the scope, the depth and breadth, of urban studies. It is required of first semester students in the Ph.D. program in Urban Studies. The course is open to graduate students not in the Ph.D. program with permission of the College of Urban and Public Affairs and the instructor.

**DURB 6900 Independent Study** 3 cr.

Offered each semester. Independent research in the graduate student's area of specialization under the direction of a designated member of the graduate faculty. May be repeated for credit.

**DURB 7020 Research Design Seminar** 3 cr.

Prerequisite: DURB 6850 or consent of department. The purpose of this course is to guide students with the cooperation of their dissertation advisers, through the development of their dissertation prospectus. The course will focus on the interrelationships between epistemology, theory, particular methods, an research design. Upon completion, students will be expected to have finished their dissertation prospectus and to have scheduled their thesis defense.

**DURB 7030 Research Design Practicum** 3 cr.

Prerequisite: DURB 7020 or consent of instructor. An opportunity to improve and test the ability to employ the craft of research by carrying through a semester-long research project that will be subject to external academic review. Its purpose is to build skills in the craft of research related to those questions, refining a theoretical framework or model, preparing a research plan for gathering and analyzing relevant data, formulating data collection instruments, gathering data for pre-test of those instruments, analyzing actual or simulated data to test proposed data analysis procedures, and preparing a journal article to report research findings.

**DURB 7040 Examination or Thesis Only No credit** 0 cr.

Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

**DURB 7050 Dissertation Research** 1 cr. min./9 cr. max.

Preparation of dissertation by Ph.D. candidates under direction of major professor and dissertation committee. Section number will correspond with credit to be earned. To be repeated for credit until dissertation is accepted.

## **Economics**

**ECON 1000 An Introduction to Current Economic Issues** 3 cr.

Offered each semester. An elementary study and analysis of current economic issues for both the beginning business and the non-business student. Introduces a minimum of economic concepts to allow the student to understand and to cope with national, international, regional, and/or local issues. The principal goal of the course is to attain a level of economic understanding sufficient for a citizen to analyze and evaluate economic issues. Not open to students enrolled in the College of Business Administration who have completed 30 semester hours (or more) of University credit.

**ECON 1203 Principles of Microeconomics** 3 cr.

Offered each semester. Prerequisites: MATH 1115 or equivalent and placement in ENGL 1157 or higher. Credit will not be given for both ECON 1203 and 2200. An introduction to the principles of economics; the economics of the firm, including market demand and the costs of production; the market structures of American capitalism; the pricing of products and employment of resources including the determinants of wages, interest, rents, and profits.

**ECON 1204 Principles of Macroeconomics** 3 cr.

Offered each semester. Prerequisite: prior or concurrent enrollment in ECON 1203. Credit will not be given for both ECON 1204 and 2200. An introduction to the theory of aggregate income, employment, and the price level; economic stabilization policies; economic growth and development; and international economics.

**ECON 1273 Development of the Economic System in the United States** 3 cr.

Offered each semester. A study and an analysis of the major forces of the American economic system from colonial times to present times. Attention will be given to forces leading the United States into internationalism.

**ECON 2000 Engineering Economics** 3 cr.

Offered each semester. (Not for credit toward a degree in business administration.) Planning economic studies for decision making including considerations of rate of return, cost and yield studies, depreciation and tax relationships, increment costs, replacement, and introduction to multivariate alternative studies.

**ECON 2200 Economic Principles** 3 cr.

Offered each semester. Credit will not be given for both ECON 2200 and 1203, 1204. (Not for credit in the College of Business Administration) This course is designed to give non-business students a comprehensive introduction to economic principles and problems. In addition to theoretical treatment of the price system, attention is given to current economic problems such as those relating to money and banking, labor, taxation, tariffs, and international trade.

**ECON 2221 Money and Banking** 3 cr.

Offered each semester. Prerequisite: ECON 1203, 1204, or 2200. A survey of money, commercial banking, financial institutions, the Federal Reserve System, and the formulation and execution of monetary and economic stabilization policy.

**ECON 2260 International Economics** 3 cr.

Prerequisites: ECON 2200 or 1203. A broad view of the workings of the international economy. While presenting the modern theory of trade, the course will emphasize issues such as consequences

- of liberalization of trade policies, trade (such as voluntary export constraints, and dumping), arguments for and against trade, international trade agreements, strategic trade policy, foreign direct investment, exchange rate determination, exchange rate systems, and economic policy cooperation.
- ECON 3000 Managerial Economics** 3 cr.  
Prerequisite: ECON 1203. Particular concepts and corresponding analysis underlie managerial decisions and shape business strategies. This course deals with concepts rooted in economics and used in practical decisions made by business executives. In this way, the language and reasoning of executive decision making are developed. Emphasis is placed on language, concepts, and analysis embedded in current methods and techniques of executive and managerial decision making.
- ECON 3099 Senior Honors Thesis** 1 cr. min./6 cr. max.  
Offered each semester. Prerequisites: consent of department and Honors Program director. Senior honors thesis under the direction of a faculty member. Section number will correspond with credit to be earned. Must be repeated for a total of six credit hours.
- ECON 3203 Intermediate Microeconomic Theory** 3 cr.  
Offered each semester. Prerequisite: ECON 1203 or 2200. A study of resource allocation and of factor pricing in an enterprise economy.
- ECON 3204 Intermediate Macroeconomic Theory** 3 cr.  
Offered each semester. Prerequisite: ECON 1203, 1204, or 2200. A course in macroeconomic analysis which covers modern income and employment theory. Special attention will be given to macroeconomic problems and economic stabilization.
- ECON 3211 The Evolution of Economic Thought** 3 cr.  
Designed to acquaint the student with the leading economic theorists who have influenced economics as a body of scientifically developed propositions.
- ECON 3231 Labor Economics** 3 cr.  
Prerequisite: ECON 1203 or 2200. A survey of the nature and causes of the economic problems of the American wage earner (insecurity, wages, hours, and substandard workers) and of the attempts of wage earners and society through organization and legislation to alleviate and solve these problems.
- ECON 3292 Internship in Business and Economics** 3 cr.  
Prerequisites: BA 2780 or equivalent, QMBE 2786 or equivalent, or consent of department. Student intern is engaged ten hours per week at the site of an assigned participating organization which directs the intern in a specific research project. Students wishing to take this course should apply a semester in advance since enrollment is limited by internships available.
- ECON 3299 Honors Colloquium** 1 cr.  
Prerequisites: sophomore, junior, or senior standing; recommendation of a student's dean; and approval of department. Study of primal and pivotal personages, works, and ideas in economics. Readings, papers, and examinations at the discretion of the coordinator.
- ECON 3595 Academic Year Abroad: Special Topics in Economics** 3 cr.  
This course is only offered through UNO's Academic Year Abroad (AYA) in Innsbruck, Austria and can be repeated once for credit.
- ECON 3999 Special Topics in Economics** 3 cr.  
Prerequisite: consent of department. Topic will vary from semester to semester. (May be repeated once for credit.) The course content and materials will vary depending upon the professor and course title. Enrollment as well as when it is to be offered will be contingent upon same.
- ECON 4205/G Business Cycles and Forecasting** 3 cr.  
(ECON 4205 and FIN 4305 are cross-listed) Prerequisite: ECON 1203, 1204, and QMBE 2786. Univariate forecasting models; multiple time series model building. Applications to business trends and business cycles.
- ECON 4241/G Public Finance** 3 cr.  
Prerequisite: ECON 1203 or 2200. This is a general course in the principles of public finance. It covers the economic effects of public revenues, public expenditures, and intergovernmental fiscal relations. Special attention is given to problems of fiscal policy and debt management at the federal level.
- ECON 4242/G The Economics of State and Local Finance** 3 cr.  
Prerequisite: ECON 1203 or 2200. This is a course designed to analyze the functions of state and local governments relating to the provision of public goods. The demand for and the supply of public goods as well as the production of these goods will be examined. Optimal methods of financing these government services will be investigated. The tax incidence and the equity of various financing forms will be presented. Grants-in-aid, revenue sharing, and other federal policies affecting intergovernmental relations in a federal system will also be analyzed.
- ECON 4250/G Health Care Economics** 3 cr.  
Prerequisite: ECON 1203. An overview of the major economic considerations in the health care industry. Emphasis on economic theory and empirical analysis with applications to health care markets, health care institutions, physicians, health insurance, and government health care programs and regulations.
- ECON 4251/G The Economics of Government Regulation** 3 cr.  
Prerequisite: ECON 1203 or 2200. Analysis of the economic bases, policies, and consequences of government regulation of economic activity, with particular emphasis upon government regulation directed toward mobilization of the economy.
- ECON 4252/G Law and Economics** 3 cr.  
Prerequisite: ECON 3203 or consent of department. A study of the theory of law and economics, including the economics of property rights and public choice theory. The course concentrates on the impact of the legal system on the allocation and distribution of resources in a wide variety of areas including antitrust, public utility regulation, money and banking, zoning, the environment, and others.
- ECON 4253/G Environmental Economics** 3 cr.  
Prerequisite: ECON 1203 or 2200. A study of the economic theory of environmental externalities as applied to air and water pollution and solid waste management; economic analysis of alternative environmental policies and programs.
- ECON 4254/G Economics of the Arts** 3 cr.  
Prerequisite: ECON 2000 or 1203. Investigates the arts as economic activities. Considers the labor, capital, and other resources used to generate arts goods and services in drama, music, the visual arts, and related areas. Investigates the distinctive positions of profit versus non-profit activities. Surveys public versus private subsidization of arts activities. Studies the effects of changing technology, leisure habits, and art forms themselves on the future of arts in the economic setting. May not be taken for graduate credit.
- ECON 4261/G International Trade Theory** 3 cr.  
Prerequisite: ECON 1203 or 2200. An introduction to the classical and modern theories of international trade, international payments, and adjustment of international disequilibrium.
- ECON 4263/G Transportation** 3 cr.  
Prerequisite: ECON 1203, 1204, or 2200. A generalized view of the development of transportation systems in the United States, the

- economic significance of transportation in an industrial society, and principles and problems of transport regulation.
- ECON 4264/G Economics of Natural Resources** 3 cr.  
Prerequisite: ECON 1203 or 2200. An economic analysis of the practices and problems in man's utilization of land, water, air, forest, soil, and mineral resources.
- ECON 4265/G Regional Economics** 3 cr.  
Prerequisite: ECON 1203 or 2200 or consent of department. Analysis of theoretical models and empirical studies of regional economic development. It covers classical location theory and introduces export base, regional multiplier theory, and input-output analysis.
- ECON 4266/G Urban Economics** 3 cr.  
Prerequisite: ECON 1203 or 2200 or consent of department. Nature, function, and economic foundation of cities; resource allocation in an urban context; urban economic growth; spatial structure land-use patterns; central business district functions; centralizing and decentralizing forces; urban public services; government decision making in metropolitan areas; housing, transportation, racial discrimination, poverty problems, and pollution.
- ECON 4272/G Comparative Economic Systems** 3 cr.  
Prerequisite: ECON 1203, 1204, and 2200. A survey and comparison of differing systems of economic organization. May not be taken for graduate credit.
- ECON 4291 Undergraduate Directed Individual Study** 3 cr.  
(ECON 4291 and FIN 4391 are cross-listed) Offered each semester. Prerequisites: Approval of the directed individual study by the department chair and the supervising professor is required prior to registration. The student should refer to the College of Business Administration Policy On Undergraduate Directed Individual Study available in the Department of Economics and Finance. This course is arranged individually in order to provide latitude for specialized study and research under the direction of a faculty member. Progress reports, readings, conferences, and a research paper are required. May be repeated.
- ECON 4306/G International Finance** 3 cr.  
(ECON 4306 and FIN 4306 are cross-listed) Prerequisite: ECON 1203 and 1204 or ECON 2200, or FIN 3300. This course examines the financial operations of the firm from an international point of view. It draws upon topics such as exchange rate determination, foreign exchange exposures (risks) for the multinational firm and techniques to hedge such exposures, international bond, equity and currency markets, trade documentation, and international capital budgeting. This course will cover the following Candidate Body of Knowledge (CBOK) sections from the Chartered Financial Analyst CFA Program: CBOK Section III, J. International Finance. Students may not receive graduate credit for both ECON 4262, FIN 4306, and FIN 6367.
- ECON 4400 Economic Foundations for Managers** 3 cr.  
Economic foundation needed for managerial decision making. Prepares students for graduate study in Business Administration. It deals with problems of scarcity and how choices made by individuals, businesses, and governments serve to address allocation questions that arise from scarcity. Not open to College of Business undergraduate majors or Liberal Arts economics majors. May not be taken for graduate credit. Students may not receive credit for both ECON 1203 and ECON 1204 and this course.
- ECON 6200 Managerial Economics** 3 cr.  
Prerequisite: Economics 4400 or equivalent, Quantitative Methods in Business and Economics 4400 (Statistics) or equivalent. Economic concepts and analysis that underlie managerial decisions and shape business strategies. Topics include basic economic concepts of demand, supply, production, cost and profit along with applications to strategies dealing with productivity, cost and profit improvement; price determination; vertical and horizontal boundaries of businesses; competitive analysis; and competitive advantage.
- ECON 6202 International Economics** 3 cr.  
Prerequisite: ECON 3203 or ECON 6200. A broad view of the workings of the international economy. Topics include: trade theory, trade regulations and policies, international factor movements, foreign exchange markets, and international economic policy.
- ECON 6203 Microeconomic Theory** 3 cr.  
Prerequisite: QMBE 6280 and ECON 3203, or consent of department. Analysis of pricing and distribution under perfect and imperfect market structures, social welfare concepts, and other current microeconomic topics.
- ECON 6204 Macroeconomic Theory** 3 cr.  
Prerequisite: ECON 3204 and QMBE 6280 or consent of department. Analysis of Keynesian and classical models with comparative statics. Permanent and transitory shocks. New classical macroeconomic issues including signal extraction, policy ineffectiveness, observational equivalence, and Lucas's critique. Overlapping generations models and multiple equilibria. Growth theory with comparative dynamics.
- ECON 6205 Seminar in Business Conditions Analysis** 3 cr.
- ECON 6206 Welfare Economics** 3 cr.  
Prerequisite: ECON 6203. Welfare economics in a general equilibrium framework; Pareto optimality and the efficiency of perfect and imperfect competition; external effects in production and consumption; taxes subsidies and compensation; social welfare functions; the theory of second best; and externalities and free enterprise.
- ECON 6207 Seminar in Microeconomics** 3 cr.  
Prerequisite: ECON 6203. The course will use the models and concepts developed in ECON 6203 to examine the properties of general equilibrium in a market economy. Also the course will introduce state preference models and expose students to selected topics in production theory the economics of information and game theory.
- ECON 6208 Seminar in Macroeconomics** 3 cr.  
Prerequisite: QMBE 6280 and ECON 6204. This course will examine extensions and alternatives to the models presented in ECON 6204. Emphasis will be given to 1) disequilibrium models and 2) growth models. Also the course will survey current topics in macroeconomics.
- ECON 6209 Economics of Risk and Uncertainty** 3 cr.  
Prerequisites: ECON 6207. Methods used to introduce risk and uncertainty into various economic and financial models; analysis of behavior in individuals, firms and markets in risky situations.
- ECON 6220 International Monetary Economics** 3 cr.  
Prerequisite: ECON 2221. Topics include the balance of payments and adjustment mechanisms, exchange markets, international capital markets, macroeconomic policies in the open economy, and international reserves and liquidity. Special attention is given to the roles of asset markets and expectations in exchange rate determination and international macroeconomic policies.
- ECON 6221 Monetary Theory** 3 cr.  
Prerequisite: ECON 6204, QMBE 6281. An examination of the development of monetary theory, the implementation of policy, and the current controversies in theory and policy.
- ECON 6241 Public Finance and Taxation** 3 cr.  
A study of the theory of public finance and problems of taxation, with special attention to the recent literature.

- ECON 6251 Seminar in Industrial Organization** 3 cr.  
A survey of the organization of industry in the American economy with emphasis on the empirical and analytical techniques used in investigating structure and performance in the manufacturing sector of the economy.
- ECON 6261 Seminar in International Economics** 3 cr.  
Prerequisite: ECON 6220 and QMBE 6282. Advanced topics and readings in International Financial Economics.
- ECON 6266 Urban Economics and Spatial Structures** 3 cr.  
Prerequisites: ECON 3781 or a calculus equivalent. Topics in the financial and economic theory of urban areas: cities as open regions in a larger economy, urban spatial structures within financial and externality limitations, urban transportation, land use controls, and the urban public economy.
- ECON 6292 Directed Individual Studies** 3 cr.  
Prerequisite: consent of department. This tutorial is arranged individually in order to provide latitude for specialized study and research. May be repeated for credit.
- ECON 6294 Internship in Economics** 3 cr.  
Prerequisite: 15 hours of MBA courses with at least a 3.0 GPA and consent of the department. The student will work a minimum of 150 hours during the semester at the site of a participating organization that directs the intern in a specific economic project. Students must in addition engage in extensive outside research in the subject area related to their internship and submit a substantial report on this research reflecting a graduate level of learning. Enrollment is limited. May not be repeated for credit.
- ECON 6295 Special Topics in Economics** 1 cr. min./4 cr. max.  
An intensive study of selected special topics in Economics. Topics will vary based on contemporary needs as dictated by the discipline as well as the interests of the students and the instructor. Section number will correspond with the number of credits to be earned.
- ECON 7040 Examination or Thesis Only** 0 cr.  
No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.
- ECON 7050 Dissertation Research** 1 cr. min./9 cr. max.  
(ECON 7050 and FIN 7050 are cross-listed) Preparation of dissertation by Ph.D. candidate under direction of major professor and dissertation committee. Section number will correspond with credit to be earned. To be repeated for credit until dissertation is accepted.
- ECON 7051 Dissertation Workshop** 1 cr.  
(ECON 7051 and FIN 7051 are cross-listed) Prerequisite: Consent of the department. This is a required course for all third year Ph. D. Students in Financial Economics. Students will present progress reports on their dissertation research for critique by faculty and other graduate students.
- EDAD 3530 College Student Services As A Profession** 3 cr.  
This course provides an overview of the issues, theories, practices, and career tracks associated with the student services profession in higher education. Topics examined include the history and philosophy of student services; the skills and competencies needed by student service professionals; the functional areas of student services; the relationship between student service professionals and other campus constituencies; issues associated with developing a career as a student service professional; and contemporary issues in college student services. The interactions between theory and practice for faculty, counselors, and student service professionals are examined throughout the course.
- EDAD 6090 Independent Research in Educational Administration** 1 cr. min./3 cr. max.  
Prerequisites: consent of department and major professor. Independent research under the supervision of a faculty member. The student is responsible for the selection of the area of research. The course may be repeated but total credit may not exceed six semester hours. Section number will correspond with credit to be earned.
- EDAD 6310 Foundations of Adult Education** 3 cr.  
(EDCI 6310 and EDAD 6310 are cross-listed) A study of the historical and philosophical foundations of adult education.
- EDAD 6320 Adult Learning and Development** 3 cr.  
(EDCI 6320 and EDAD 6320 are cross-listed) An inquiry into adult learning theories, developmental stages, and the forces which motivate adults to participate in educational programs.
- EDAD 6370 Methods of Adult Education** 3 cr.  
(EDCI 6370 and EDAD 6370 are cross-listed) A study of the variety of techniques and strategies to assess needs, present information, facilitate learning, organize the learning environment, and evaluate the performance of adult learners.
- EDAD 6390 Practicum in Adult Learning** 3 cr.  
(EDCI 6390 and EDAD 6390 are cross-listed) Prerequisites: EDCI/EDAD 6310, 6320 and completion of or concurrent enrollment in EDCI/EDAD 6370 or consent of the department. Application of various learning theories in actual teaching/learning situations.
- EDAD 6530 Student Services in Higher Education** 3 cr.  
(EDAD 6530 and EDGC 6530 are cross-listed) A study of student personnel programs in colleges and universities. The history, philosophy, and organization; student rights and responsibilities; discipline; and administration of these programs within the context of the purpose of higher education institutions.
- EDAD 6535 College Student Development** 3 cr.  
An overview of the issues, theories and practices associated with effective college student development. Topics examined include various developmental and college impact theories of change and the unique characteristics and development of diverse groups of college students. The implications of interactions between theory and practice for student affairs professionals are examined throughout the course.
- EDAD 6550 The Academic Profession** 3 cr.  
Drawing on current research related to higher education faculty and their work, this course is designed to equip students with knowledge of the academic profession. Topics will acquaint students with the history, structure, work roles and institutional life of the faculty member and cover such topics as academic freedom and tenure, the research, teaching and service roles of faculty, socialization to the profession, and faculty misconduct. The course is designed to provide higher education administrators with knowledge needed to work effectively with faculty. Course content will also provide students in any discipline who are aspiring to the

## Educational Administration

- EDAD 2000 Introduction to Leadership** 2 cr.  
This course will help students recognize and enhance their leadership potential for current and future involvement on campus and in the community. Students will examine definitions and theories of leadership, leadership styles from an interdisciplinary perspective, leadership in organizations, and contemporary leadership issues.

professoriate with an understanding of the challenges faculty face in their institutional and disciplinary lives.

- EDAD 6600 The American College and University** 3 cr.  
Introduction to contemporary United States higher education, with special emphasis on historical development, emerging trends, roles of faculty, students and administrators in the several kinds of institutions, the composition and character of governing boards, administrative hierarchy, and their coordination for colleges, universities and state systems.
- EDAD 6605 Community & Technical Colleges** 3 cr.  
This course provides an overview of community and technical college education. It examines the history and philosophy of community and technical colleges; the skills and competencies needed by educational professionals working in these postsecondary settings; the application of appropriate administrative, educational and counseling theories in community and technical colleges; and an overview of contemporary issues in community and technical college education. The interactions between theory and practice for faculty, counselors, and administrators working in the community and technical colleges are examined throughout the course.
- EDAD 6610 Legal Aspects of Higher Education** 3 cr.  
Prerequisite: Educational Administration 6600 or consent of department. This course provides an overview of the historic and contemporary influence of the U.S. Constitution, federal and state statutes, case law, and agency regulations that apply to the governance of higher education.
- EDAD 6615 Financial Management in Higher Education** 3 cr.  
This course will provide an overview of the basic concepts, procedures, and applications used to finance higher education both in the public and private sectors. Financial management techniques and procedures currently in use in higher education institutions will be discussed and analyzed.
- EDAD 6620 History and Philosophy of Higher Education** 3 cr.  
Prerequisite: EDAD 6600 or consent of department. Over-view of the development of the American system of post-secondary education its origins, philosophical perspectives, major characteristics, distinctive features, and trends.
- EDAD 6630 Student Choice in Higher Education** 3 cr.  
Factors that influence student choice in higher education, including decisions about attending college, choosing a school, choosing a major, and persisting in college are identified. The ways in which student choice research can inform the development and refinement of institutional enrollment management strategies and government finance policies are also analyzed and discussed.
- EDAD 6640 College Teaching** 3 cr.  
(EDCI 6758 AND EDAD 6640 are cross listed) This course provides an overview of the issues principles and practices associated with effective college teaching. Topics examined include learning and diversity; teaching models and strategies teacher and student behaviors and learning outcomes; and instructional improvement strategies. The interaction of theory and practice is an important theme of the course.
- EDAD 6645 College Student Learning** 3 cr.  
(EDCI 6759 and EDAD 6645 are cross-listed) This course examines recent advances in research and theory related to behavioral, humanistic, information-processing, developmental, motivational, social, cognitive, epistemological, developmental, multicultural, constructivist, and other contemporary perspectives on how college students learn. Research and theory in these areas will be studied in ways that emphasize concrete implications for teaching practices, curriculum development, and student services in the

design of effective learning environments for students in traditional two-year and four-year classrooms as well as in other non-traditional postsecondary contexts.

- EDAD 6650 College Curriculum** 3 cr.  
(EDCI 6658 and EDAD 6650 are cross listed) This course provides an over-view of the issues, principles, and practices associated with college curriculum development. Topics include the diversity of philosophical foundations for college curricula; perspectives and models of the college curriculum in higher education. The interaction of theory and practice is an important theme of the course.
- EDAD 6675 Current Issues In Higher Education** 3 cr.  
This course examines current issues in American higher education and provides an overview of the current status of higher education in terms of individual and institutional trends. It focuses on recent developments in theory, research, policy and practice related to prominent contemporary issues; facilitates the critical analysis of such issues; and provides a forum in which the most recent issues can be synthesized in a manner that promotes a greater understanding of the dynamic interactions between research (methods and theory) and application (policy and practice).
- EDAD 6681 Organization & Leadership in Higher Education** 3 cr.  
Prerequisite: admission to doctoral program in educational administration or consent of the department. This course requires students to use different analytical and critical approaches for understanding the complex manner in which American postsecondary education, primarily colleges and universities, are organized, governed, administered, and led. The purposes of the course involve providing an overview or organization including the forms, structures, roles, and functions of higher education and leadership theory including leadership roles, management principles and practices. Topics examined include classic organization theory, traditional administrative and governance models, campus climate and culture, leadership theory and analysis, management principles, institutional change and assessment, race and gender, and governance.
- EDAD 6682 Policy Analysis in Higher Education** 3 cr.  
Prerequisite: admission to doctoral program in educational administration or consent of the department. This course examines policies within higher education institutions, as well as state and federal policies related to higher education, the elements of the policy-making process, and the strategies for research and policy analysis in higher education. Topics examined include the historical development of higher education policy; the process of policy-making at the institutional, state, and federal levels and the role of colleges or universities in that process; the various non-governmental agencies and constituents involved in policy-making; methods for policy analysis and research; and current issues in higher education policy such as access, affordability, and accountability and institutional response to these issues.
- EDAD 6683 Students in Higher Education** 3 cr.  
Prerequisite: admission to doctoral program in educational administration or consent of the department. This course examines the contemporary undergraduate college student in America. The topics of this course follow a logical progression from the choice of a college or university, a student's decision to remain or depart a given college or university, and the effects that college attendance has on students. This course will present a theoretical and practical literature regarding issues associated with today's college student. The course also focuses on ways in which the attributes of the "typical" college student have changed and how the proliferation of non-traditional students on college campuses has presented new challenges for administrators, student affairs professionals, and faculty.

- EDAD 6684 Teaching, Learning & Curriculum in Higher Education** 3 cr.  
Prerequisite: admission to doctoral program in educational administration or consent of the department. Advanced and in-depth study of the classic, contemporary, and emerging issues, ideas, concepts, theories and research that serve to define and expand the boundaries of the literatures related to the areas of teaching, learning and curriculum in higher and postsecondary education. Research and theory in these areas will be studied in ways that emphasize scholarly writing as well as concrete applications to the development of effective policy and practice in each area.
- EDAD 6695 Internship In Higher Education** 3 cr.  
This experiential course offers students individualized opportunities for observation and participation in administration in colleges and universities. Students spend a total of 150 hours per semester working in a structured, supervised setting learning about a particular aspect of higher education administration. Additionally, the students prepare academic products related to their work in the internship setting.
- EDAD 6800 School Leadership** 3 cr.  
School leadership theories with special emphasis on self-reflection on leadership potential and ethics
- EDAD 6805 Leading the Learning Environment** 3 cr.  
Prerequisite: Practicing Certified Teacher. This course examines the concept of schools as learning organizations and the role of personal mastery, mental models, shared vision, team learning, and systems thinking. It is designed to provide individuals with current theories, research, and techniques for improving schools through an examination of the School Improvement Plan and through field experiences related to improving the learning environment in the school. This course contributes to creating and sustaining a high-performance learning culture in schools through the study of adult learning, effective professional development, and use of peer coaching and the wide lens observation technique to improve teaching practices. This course requires field experience.
- EDAD 6810 School Law** 3 cr.  
The evolution, principles, and practices of school law and court decisions, with emphasis on school law of Louisiana and policy implementation of legal decisions.
- EDAD 6811 Advanced School Law** 3 cr.  
Prerequisite: EDAD 6810 or consent of department. This course provides for the development of legal analytical skills for the solution of law-related problems. Current issues in school law will be examined. Students will be expected to conduct a legal study that solves some aspect of a school law problem.
- EDAD 6812 Leading Curriculum, Instruction and Assessment** 3 cr.  
Prerequisite: EDAD 6800 and EDAD 6805 and acceptance into Level 2 of the Educational Leadership Program. This course serves to provide future school leaders an opportunity to examine the needs of the school/district to improve student achievement and to work with teachers and staff to implement aligned curriculum, instruction, and assessment to enable higher student achievement. This course requires field experience.
- EDAD 6815 Public School Finance** 3 cr.  
A survey of the financial and business management in public education with special reference to the study of state and local sources of revenue, budgeting, and accounting procedures.
- EDAD 6816 School-Based Management** 3 cr.  
Prerequisite: EDFR 6700, EDAD 6800 and 6 additional hours of EDAD courses. School decision making models and management with emphasis on academic improvement, personnel, finance, technology, facilities, and maintenance.
- EDAD 6820 Administration of School Personnel** 3 cr.  
A study of personnel theory and management and the interrelationship of the individual the organization and the processes of education.
- EDAD 6823 Collective Bargaining in Education** 3 cr.  
A study of the collective bargaining process as it affects elementary secondary and higher educational institutions. Special attention will be given to teachers from kindergarten through grade 12. This course is not available for credit for graduate students in the economics program.
- EDAD 6825 Administration of Pupil Personnel Services** 3 cr.  
A study of the organization and administration of pupil services as they relate to the instructional program.
- EDAD 6830 Educational Facility Planning** 3 cr.  
Designed to provide educational administrators with opportunities to study problems in the planning and construction of educational facilities.
- EDAD 6835 Computer Applications in Education** 3 cr.  
This course will provide an overview of some of the current uses of microcomputers in education and an evaluation of educational software. Applications in the areas of administration, instruction, and pupil personnel services will be examined.
- EDAD 6840 Organization and Governance of K-12 Schools** 3 cr.  
The political relationships between schools, government, and society through a policy orientation.
- EDAD 6845 School Community Relationships** 3 cr.  
Implementation of effective school/community programs, including public relations and parent involvement
- EDAD 6850 Supervision of Instruction** 3 cr.  
Theories and practices for instructional improvement, with emphasis on clinical supervision. Skills in classroom observation, conferencing and group facilitation.
- EDAD 6851 Advanced Supervision Planning for Change** 3 cr.  
Prerequisite: EDAD 6850 Educational change theory with emphasis on planning for curriculum innovation and instructional improvement.
- EDAD 6855 The Supervision of Student Teaching** 3 cr.  
Designed to assist students in the techniques of supervising student teachers.
- EDAD 6858 Practicum in Clinical Supervision of Instruction** 3 cr.  
Prerequisite: completion of 12 semester hours of School Administration courses including EDAD 6851 or consent of department. Supervisory experience is provided in an elementary or secondary school or in the central office of a school system under the direction and guidance of an accomplished supervisor. Seminars conferences field work written reports.
- EDAD 6860 Principalship** 3 cr.  
Prerequisites: EDFR 6700, EDAD 6800 and 6 additional hours of EDAD courses. The Principalship course serves as one of the culminating courses that reinforces and expands theories, skills, and practices for effective leaders. The aim of the course is to provide candidates with relevant examples and simulations of a leader's role in various levels of administrative practice.
- EDAD 6875 School Improvement** 3 cr.  
Prerequisites: EDFR 6700 EDAD 6800 and 6 additional hours of EDAD courses. Review of the school effectiveness research with related

topics including teacher effectiveness, principal effectiveness, and school improvement models.

**EDAD 6890 Seminar in Educational Administration** 3 cr.  
Prerequisite: consent of department. This course is designed to analyze in depth contemporary administrative problems of urban and suburban educational systems.

**EDAD 6893 Practicum In School Leadership** 3 cr.  
Administrative experience is provided in an elementary or secondary school under the direction and guidance of an accomplished principal.

**EDAD 6895 Internship in School Leadership** 3 cr.  
Prerequisite: EDFR 6700 EDAD 6800 and 12 additional hours of EDAD courses. Observation and participation in administration in schools central office special projects allied organizations or other clinical settings.

**EDAD 6910 Strategic Approaches to Educational Administration** 3 cr.  
Prerequisite: admission to the doctoral program in educational administration. The course provides an overview of the development and use of strategic approaches to planning and management in education. The analysis of case studies is used to build skills in strategic analysis and understanding of the role of strategic decisions in organizational change in all levels of education.

**EDAD 6920 Advanced Theories in Educational Administration** 3 cr.  
Prerequisite: admission to doctoral program in educational administration. An examination of administrative theories and their applicability to educational administration.

**EDAD 6930 Leader Behavior in Educational Administration** 3 cr.  
Prerequisite: admission to doctoral program in educational administration. Survey of theories of leadership and leader behavior in educational administration. Students will organize this knowledge into a set of generalizations based on reason and experimentation.

**EDAD 6940 Power and Politics in Educational Administration** 3 cr.  
Prerequisite: admission to UNO doctoral program in Educational Administration or consent of department. This course provides a theoretical overview of the relationship between power and politics as applied to education. It is concerned with the impact of policy and the influence of politics in educational organizations at both the macro and micro levels.

**EDAD 6950 Educational Policy Analysis** 3 cr.  
Prerequisite: Admission to Educational Administration doctoral program. This seminar will introduce discipline-based conceptual perspectives (or analytic frameworks), which can be used to interpret, analyze, and critique education policy construction, content, and outcomes. The course will also place policy within its socio-economic and political contexts so that students will be able to navigate the broader forces that influence policy and policymaking. The course also endeavors to heighten students' overall awareness to the role and impact policy plays in education so that future educational leaders can help improve processes and products.

**EDAD 6960 Conceptualizing PK16+ Education** 3 cr.  
Prerequisite: Admission to the doctoral program in educational administration. This course will examine issues relevant to conceptualizing PK16+ education. Students will explore challenges faced by school and postsecondary education leaders associated with the preparation of students for educational advancement and effective participation in a democratic society. Students will be challenged to define, reflect upon, and rethink effective leadership approaches

associated with student preparedness and advancement as viewed through a variety of lenses: the aims, philosophies and goals of education; curricular design, implementation, assessment, and articulation across levels; learning theories and their applicability across the lifespan; teaching across PK-16+ boundaries; and curricular reform movements and their impacts.

**EDAD 6980 Independent Study in Educational Administration** 1 cr. min./3 cr. max.  
Prerequisite: advanced graduate standing with consent of department and major professor. Investigation of pertinent problems under the direction of a graduate faculty member. This course may be repeated but total credit may not exceed six semester hours. Section number will correspond with credit to be earned.

**EDAD 6991 Selected Topics in Educational Administration** 1 cr. min./3 cr. max.  
Prerequisite: consent of department. The content of the course will be varied from semester to semester. Section number will correspond with credit to be earned. A total of six semester hours may be earned toward a degree.

**EDAD 6992 Selected Topics in Educational Administration** 1 cr. min./3 cr. max.  
Prerequisite: consent of department. The content of the course will be varied from semester to semester. Section number will correspond with credit to be earned. A total of six semester hours may be earned toward a degree.

**EDAD 6993 Selected Topics in Educational Administration** 1 cr. min./3 cr. max.  
Prerequisite: consent of department. The content of the course will be varied from semester to semester. Section number will correspond with credit to be earned. A total of six semester hours may be earned toward a degree.

**EDAD 6997 Research Seminar in Educational Administration** 3 cr.  
Prerequisite: admission to doctoral program in educational administration. This course will provide an overview of critical issues in the research design and analysis of data in educational administration. Current publications in educational administration will be reviewed and critiqued. Readings discussions and an analysis of educational methodologies and research in school administration will be critically examined.

**EDAD 7000 Thesis Research** 1 cr. min./9 cr. max.  
To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned

**EDAD 7040 Examination or Thesis Only** 0 cr.  
No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

**EDAD 7050 Dissertation Research** 1 cr. min./9 cr. max.  
Prerequisite: approval by the candidate's graduate committee. To be repeated for credit until the dissertation is accepted. Section number will correspond with credit to be earned.

## Curriculum and Instruction

**EDCI 3101 Field Experience** 1 cr.

**EDCI 3140 Materials and Methods in Elementary School Mathematics** 3 cr.  
Prerequisites: MATH 1021 and 1022 or consent of department. This course develops competencies in planning, conducting, and

evaluating instruction in elementary school mathematics. Field experiences in local schools are included in this course.

**EDCI 3150 Materials and Methods in Elementary School Science**

3 cr.

Prerequisites: completion of , with grade of C or better, or enrollment in the last four required of the 12 hours of general education science courses. Introduction to newer programs and instructional strategies in the teaching of elementary school science. Laboratory experience in the university and elementary school classroom is provided. Field experiences in local schools are also included in this course.

**EDCI 3160 Materials and Methods in Elementary School Social Studies**

3 cr.

Prerequisite: Consent of department. This course is designed to investigate the purposes of social studies, understand and evaluate recent developments in content and instructional procedure, and develop competencies in planning and conducting instruction in elementary school social studies. Field experiences in local schools are included in this course.

**EDCI 3205 Professional Laboratory Experience in Secondary Education**

1 cr.

Prerequisite: concurrent enrollment in EDCI 3200 or consent of department. Observational and participatory experiences under faculty direction. Seminar held on campus. Field experiences in junior high or senior high schools for a minimum of 25 hours. Required of all junior high, high school, and special teaching certificate candidates.

**EDCI 3260 Introduction to Secondary School Social Studies**

3 cr.

Prerequisites: EDCI 3200 and consent of department. This course is designed to investigate the definition and purposes of social studies, understand recent research, trends and issues related to social studies, and introduce instructional approaches practiced in social studies education. Appropriate field experience may be required.

**EDCI 3265 Teaching Social Studies Education**

3 cr.

Prerequisite: Curriculum and Instruction 3260 or consent of department. This course is designed to develop the skills necessary for effective social studies classroom instruction. Included are skills related to planning instruction, using instructional strategies, dealing with classroom issues and problems, and assessing student achievement and teacher performance. Field experience will be required.

**EDCI 3310 Developmentally Responsive Curriculum and Instruction for Adolescents**

3 cr.

Prerequisites: Concurrent enrollment in EDCI 3311. This course lays the foundation for teachers of students in secondary schools. It addresses physical, emotional, cognitive, social characteristics, and development of the adolescent, with emphasis on psychological and physical wellness, components of exemplary middle and high schools, and developmentally responsive curricular and instructional strategies.

**EDCI 3311 Field Experience: Developmentally Responsive Curriculum and Instruction for Adolescents**

1 cr.

Prerequisite: Concurrent enrollment in EDCI 3310. This is a required one-credit-hour Field Experience that supports candidates in applying the content of EDCI 3310 within the classroom. Candidates must spend two hours weekly in middle and/or high school settings to implement required field activities. Candidate field work will generate artifacts to document performance of required competencies.

**EDCI 3320 Engaging Young Adolescents in Middle School Science & Social Studies**

2 cr.

Prerequisites: EDCI 3310 (Developmentally Responsive Education for Young Adolescents) and concurrent enrollment in EDCI 3321 (1 cr.), Field 8. The course introduces participants to perspectives on teaching and learning grounded in standards based curriculum and multiple instructional and assessment strategies. General principles are applied to the specifics of teaching and learning of middle school science and social studies as a part of an integrated and interdisciplinary middle school teaching approach. There is a focus on using the local community as a resource for conducting cultural, historical, and environmental inquiries.

**EDCI 3321 Field Experience: Engaging Young Adolescents in Middle School Science & Social Studies**

2 cr.

Prerequisite: Concurrent enrollment in EDCI 3320. This is a required two-credit-hour Field Experience that supports candidates in applying the content of EDCI 3320 within the classroom. Candidates must spend four hours weekly in school settings to implement required field activities. Candidate field work will generate artifacts to document performance of required competencies.

**EDCI 3330 Engaging Adolescents in Middle School Mathematics**

2 cr.

Prerequisites: EDCI 3310 (3 cr.) and concurrent enrollment in EDCI 3331, the two-credit-hour Field Experience. Teachers develop competence in middle grade curriculum and instructional practice with a content focus on mathematics. General principles of standards-based curriculum, diverse instructional strategies are applied to the specific techniques of teaching and learning of middle school mathematics as a part of an integrated and interdisciplinary middle school teaching approach with a focus on using real life examples.

**EDCI 3331 Field Experience: Engaging Adolescents in Middle School Mathematics**

2 cr.

Prerequisite: Concurrent enrollment in EDCI 3330. This is a required two-credit-hour Field Experience that supports candidates in applying the content of EDCI 3330 within the classroom. Candidates must spend four hours weekly in school settings to implement required field activities. Candidate field work will generate artifacts to document performance of required competencies.

**EDCI 3340 Methods for Developing Algebraic and Geometric Thinking**

3 cr.

Prerequisites: Acceptance into Tier III. The course will focus on the teaching of algebra and geometry and their connections to other content areas of the elementary mathematics curriculum. Field experiences in local schools are included in this course.

**EDCI 3382 Materials and Methods of Teaching Vocal Music in the Elementary Classroom**

3 cr.

(EDCI 3382 and MUS 3382 are cross-listed) Prerequisites: EDCI 3100 and 3200 and consent of department. Consideration of methods and material in teaching vocal music in grades Pre-K through 6. Appropriate field experiences may be required.

**EDCI 3383 Materials and Methods of Teaching Instrumental Music in Elementary and Secondary Schools**

3 cr.

(EDCI 3383 and MUS 3383 are cross-listed) Prerequisites: EDCI 3100 and 3200 and consent of department. Consideration of methods and materials in teaching instrumental music. Appropriate field experiences may be required.

**EDCI 3384 Materials and Methods of Teaching Vocal Music in Secondary Schools**

3 cr.

(EDCI 3384 and MUS 3384 are cross-listed) Prerequisites: EDCI 3100 or 3200 and consent of department. Considerations of methods and materials in teaching vocal music in grades 7-12. Appropriate field experiences may be required.

- EDCI 3400 Foundations of Literacy** 3 cr.  
Prerequisites: Acceptance into Tier II. This course provides an overview of theories of literacy development and introduces teacher candidates to varied approaches to literacy instruction with an emphasis on strategies drawn from empirical research regarding literacy learning and teaching.
- EDCI 3410 Instruction for Early Literacy Development** 3 cr.  
Prerequisites: EDCI 3400 and acceptance into Tier III. This course provides an overview of theories of literacy development and introduces teacher candidates to varied approaches to literacy instruction with an emphasis on strategies drawn from empirical research regarding literacy learning and teaching. Field experiences in local schools are included in this course.
- EDCI 3425 Literacy Instruction for Content Learning** 3 cr.  
Prerequisite: EDCI 3410 and accepting into Tier III. This course introduces literacy instruction for children in grades 4 - 8. Topics addressed include principles of literacy development in upper elementary grades, reading and writing in content areas, assessment of literacy development, materials and methods appropriate for literacy instruction in the middle grades, and planning and organizing for instruction in 4 - 8 classrooms. Field experiences in local schools are included in this course.
- EDCI 3440 Practicum in Corrective Reading** 3 cr.  
Prerequisite: EDCI 3425 and acceptance into Tier III of the program. This course familiarizes teacher candidates with techniques and materials used to identify those children in the classroom who are performing below their potential in reading. It provides teacher candidates with the experience of developing appropriate instruction for these students. Field experience is required during the course.
- EDCI 3500 Observation & Assessment in Early Childhood Classrooms** 3 cr.  
Prerequisite: Acceptance into Tier II. The course is designed to teach strategies for observing, documenting, assessing, and reporting the development of young children, and further, to utilize this data to plan curricula and strategies which will foster the development of all children in inclusive nursery and kindergarten classrooms.
- EDCI 3510 Understanding & Facilitating Play in PreK-3** 3 cr.  
Prerequisite: Acceptance into Tier III. This course includes information about the importance of play in the development and learning of young children, how to facilitate play to an optimal level, and how to advocate for young children's right to rich opportunities to play at home, in school, and throughout the community. Enrollment in the course includes 20 hours of field experiences.
- EDCI 3520 Classroom Management in PreK-3** 3 cr.  
Prerequisite: EDCI 3500 and acceptance into Tier III. This course includes information necessary to create and maintain psychologically and physically safe environments which foster development and learning among children in preschool through grade 3. This course includes 20 hours of field experiences.
- EDCI 3530 Curricula Development for PreK-3** 3 cr.  
Prerequisite: EDCI 3500, EDCI 3510, and acceptance into Tier III. This course includes information related to creating environments that foster optimal development and learning among young children and strategies related to creating an integrated and seamless curriculum that honors each child's development and abilities. This course includes 20 hours of field experiences.
- EDCI 3540 The Development of Logico-Mathematical Knowledge in PreK-3** 3 cr.  
Prerequisite: Acceptance into Tier III. This course includes information on major theories and principles related to the development of early math literacy skills in grades PreK-3. It explores methods and materials for promoting early math literacy, develops logico-mathematical knowledge (discovering/constructing relationships as students try to make sense of their world), and techniques for integrating early math literacy concepts into themes, projects, play, and other learning experiences. This course includes 20 hours of field experiences.
- EDCI 3910 Student Teaching in the Elementary School** 12 cr.  
Prerequisites: requirements listed under "Requirements for Student Teaching." This course is designed to provide the student with an opportunity to acquire and apply competencies essential for effective teaching and to create an awareness of the total school program. The student will be assigned to a school on a day-to-day basis for one semester. The student teacher will participate in classroom teaching and observation, planning and evaluation conferences, school and community activities, and other school-related experiences. A seminar will be held in conjunction with this experience. The seminar will address the topics of classroom management and interpersonal skills.
- EDCI 3915 Student Teaching in the Elementary and Special Education Classroom** 12 cr.  
Prerequisites: requirements listed under "Requirements for Student Teaching" and concurrent enrollment in EDSP 3700. This course is designed to provide the student with an opportunity to acquire and apply competencies essential for effective teaching and to create an awareness of the total school program including mainstreaming practices and multicultural differences in students. The student will be assigned on an all-day basis to 1) a regular elementary classroom for half of the semester and 2) a special education classroom the other half of the semester. The student teacher will participate in classroom teaching and observation, planning, and evaluation conferences, school and community activities, and other school-related experiences. A seminar will be held in conjunction with this experience. The seminar will address the topics of classroom management and interpersonal skills.
- EDCI 3920 Student Teaching in the Secondary School** 12 cr.  
Prerequisites: requirements listed under "Requirements for Student Teaching." This course is designed to provide the student with an opportunity to acquire and apply competencies essential for effective teaching and to create an awareness of the total school program. The student will be assigned to a school on a full-day basis for one semester. The student teacher will participate in classroom teaching and observation, planning and evaluation conferences, school and community activities, and other school-related experiences. Seminars will be held in conjunction with this experience. Seminars will address the topics of classroom management and interpersonal skills of teaching.
- EDCI 3930 Student Teaching in the Elementary and Secondary Schools** 12 cr.  
Prerequisites: requirements listed under "Requirements for Student Teaching." The student will be assigned to a school on a full-day basis for one semester. This course is designed to provide the student with an opportunity to acquire and apply competencies essential for effective teaching and to create an awareness of the total school program. This course is open only to students with majors in either music education or physical education. The student teacher will participate in classroom teaching and observation, planning and evaluation conferences, school and community activities, and other school-related experiences. Seminars will be held in conjunction with this experience. Seminars will address the topics of classroom management and interpersonal skills of teaching.

- EDCI 3980 Independent Study in Curriculum and Instruction** 1 cr. min./3 cr. max.  
Prerequisite: a minimum of 92 credit hours and consent of the department and major professor. Investigation of pertinent problems under the direction of a Curriculum and Instruction faculty member. More than three credit hours may not be applied to any degree program. Section number will correspond with credit to be earned.
- EDCI 3999 Honors Thesis** 3 cr.  
Prerequisites: consent of department and admission to Honors in Education program. Directed research with relevance to teacher education culminating in a written thesis to meet the requirements for graduation with Honors in Education and if appropriate University Honors. May be repeated for a total of six credits.
- EDCI 4140/G Strategies for Teaching of Elementary School Mathematics** 3 cr.  
This course provides teaching strategies, methods, and instructional materials for elementary school mathematics instruction. Twenty hours of field-based experiences are included in this course.
- EDCI 4150/G Studies in the Teaching of Elementary School Science** 2 cr.  
Prerequisite: Admission to Level II of Non-degree Teacher Certification Program. Investigation of current programs and instructional strategies that contribute to effective teaching of science in the elementary school.
- EDCI 4160 Foundations of Elementary Social Studies Education** 2 cr.  
Prerequisite: Admission into Level II of the Non-degree Teacher Certification Program. This course will examine the purpose of social studies education and investigate current scholarship on the best practice methods and materials for elementary social studies education. Students will examine the controversial issues inherent in the study of social studies and develop effective strategies for dealing with these in ways consistent with the aims of social studies education.
- EDCI 4160/G Foundations of Elementary Social Studies Education** 2 cr.  
Prerequisite: Admission into Level II of the Non-degree Teacher Certification Program. This course will examine the purpose of social studies education and investigate current scholarship on the best practice methods and materials for elementary social studies education. Students will examine the controversial issues inherent in the study of social studies and develop effective strategies for dealing with these in ways consistent with the aims of social studies education.
- EDCI 4201 Field Experience in Secondary Subject Areas** 1 cr.  
Prerequisite: Concurrent enrollment in EDCI 4220, 4240, 4250, or 4260. This field experience course consists of 30 hours of observational and participatory experiences in secondary school settings and applies the content of secondary subject area methods courses to the classroom.
- EDCI 4220 Materials and Methods in Secondary School English** 3 cr.  
Prerequisites: EDCI 3200 and consent of department. This course is designed to develop competencies in planning, conducting, and evaluating instruction in English. Appropriate field experiences may be required.
- EDCI 4220/G Materials and Methods in Secondary School English** 3 cr.  
Prerequisites: EDCI 3200 and consent of department. This course is designed to develop competencies in planning, conducting, and evaluating instruction in English. Appropriate field experiences may be required.
- EDCI 4221 Materials and Methods in Secondary School English II** 3 cr.  
Prerequisite: Concurrent enrollment in EDUC 4290: Student Teaching. This course is the second methods course for undergraduates seeking certification in Secondary English. It further develops competencies in planning, conducting, and evaluating instruction in the English language arts.
- EDCI 4240 Secondary Math Methods** 3 cr.  
Prerequisites: Acceptance into Tier III or Level 2 Teacher Certification Program. This course will focus on the teaching of 6-12 grade mathematics through multiple representations that include manipulatives and technology. The building and manipulation of representations of two and three-dimensional objects as well as the visualization of objects from different perspectives using dynamic technological software are also explored. Fieldwork will be required as part of this course.
- EDCI 4240/G Secondary Math Methods** 3 cr.  
Prerequisites: Acceptance into Tier III or Level 2 Teacher Certification Program. This course will focus on the teaching of 6-12 grade mathematics through multiple representations that include manipulatives and technology. The building and manipulation of representations of two and three-dimensional objects as well as the visualization of objects from different perspectives using dynamic technological software are also explored. Fieldwork will be required as part of this course.
- EDCI 4241 Secondary Math Methods II** 3 cr.  
Prerequisite: Concurrent enrollment in EDUC 4920: Student Teaching. This course is the second methods course for undergraduates seeking certification in Secondary Mathematics. It further develops competencies in planning, conducting, and evaluating instruction in mathematics.
- EDCI 4250 Materials and Methods in Secondary School Science** 3 cr.  
Prerequisite: Acceptance into Tier III or Level 2. This course is designed to provide experiences with programs and instructional strategies oriented toward the teaching of biological and physical science by inquiry. Appropriate field experiences are required.
- EDCI 4250/G Materials and Methods in Secondary School Science** 3 cr.  
Prerequisite: Acceptance into Tier III or Level 2. This course is designed to provide experiences with programs and instructional strategies oriented toward the teaching of biological and physical science by inquiry. Appropriate field experiences are required.
- EDCI 4251 Materials and Methods in Secondary School Science II** 3 cr.  
Prerequisite: Concurrent enrollment in EDUC 4920: Student Teaching. This is the second methods course for undergraduates seeking certification in Secondary Science. It further develops competencies in planning, conducting, and evaluating instruction in the sciences.
- EDCI 4255 Studies in the Teaching of the Life Sciences in the Middle and Secondary Schools** 3 cr.  
Studies of programs and instructional strategies in the life sciences for the middle and secondary school.
- EDCI 4255/G Studies in the Teaching of the Life Sciences in the Middle and Secondary Schools** 3 cr.  
Studies of programs and instructional strategies in the life sciences for the middle and secondary school.

- EDCI 4260 Methods and Materials of Secondary Social Studies** 3 cr.  
Prerequisite: Acceptance into Tier III or Level 2 of the non-degree (Post-Baccalaureate) teacher certification program. This course will provide future social studies teachers the opportunity to examine the role of social studies in the modern secondary curriculum. This examination will include the nature of the disciplines which comprise social studies and their connectedness. Students will also investigate the challenges inherent in teaching social studies and prepare strategies for teaching the various courses in the social studies curriculum at the secondary level. This class will also look at current scholarship in the social studies with an emphasis on best practice in methods and materials.
- EDCI 4260/G Methods and Materials of Secondary Social Studies** 3 cr.  
Prerequisite: Acceptance into Tier III or Level 2 of the non-degree (Post-Baccalaureate) teacher certification program. This course will provide future social studies teachers the opportunity to examine the role of social studies in the modern secondary curriculum. This examination will include the nature of the disciplines which comprise social studies and their connectedness. Students will also investigate the challenges inherent in teaching social studies and prepare strategies for teaching the various courses in the social studies curriculum at the secondary level. This class will also look at current scholarship in the social studies with an emphasis on best practice in methods and materials.
- EDCI 4261 Materials and Methods in Secondary School Social Studies II** 3 cr.  
Prerequisite: Concurrent enrollment in EDUC 4920: Student Teaching. This course is the second methods course for undergraduates seeking certification in Secondary Social Studies. It further develops competencies in planning, conducting, and evaluating instruction in social studies.
- EDCI 4340 Algebraic and Geometric Thinking** 2 cr.  
Prerequisites: Admission to Level II of the Non-degree Teacher Certification program. The course focuses on the teaching of algebra and geometry and their connections to other content areas of the middle-school mathematics curriculum. The building and manipulation of representations of two- and three-dimensional objects as well as the visualization of objects from different perspectives using dynamic technological software are also explored. Fieldwork will be required as part of the course.
- EDCI 4340/G Algebraic and Geometric Thinking** 2 cr.  
Prerequisites: Admission to Level II of the Non-degree Teacher Certification program. The course focuses on the teaching of algebra and geometry and their connections to other content areas of the middle-school mathematics curriculum. The building and manipulation of representations of two- and three-dimensional objects as well as the visualization of objects from different perspectives using dynamic technological software are also explored. Fieldwork will be required as part of the course.
- EDCI 4355 Materials and Methods in Middle School Science and Social Studies** 2 cr.  
This course is designed to develop competence in middle grade curriculum and instructional practice with a content focus on science and social studies. The course will introduce perspectives on teaching and learning grounded in standards-based curricula and multiple instructional and assessment strategies.
- EDCI 4355/G Materials and Methods in Middle School Science and Social Studies** 2 cr.  
This course is designed to develop competence in middle grade curriculum and instructional practice with a content focus on science and social studies. The course will introduce perspectives on teaching and learning grounded in standards-based curricula and multiple instructional and assessment strategies.
- EDCI 4400 Foundations of Literacy Development** 3 cr.  
Prerequisites: Acceptance into Non-degree Teacher Certification Program. This course examines theories of literacy development and provides an introduction to various current approaches to literacy instruction, with an emphasis on strategies drawn from empirical research regarding literacy learning and teaching from birth through adulthood.
- EDCI 4400/G Foundations of Literacy Development** 3 cr.  
Prerequisites: Acceptance into Non-degree Teacher Certification Program. This course examines theories of literacy development and provides an introduction to various current approaches to literacy instruction, with an emphasis on strategies drawn from empirical research regarding literacy learning and teaching from birth through adulthood.
- EDCI 4421 Linguistic Applications in Reading-Language Arts** 3 cr.  
Prerequisite: EDCI 3420 or 3430 or consent of department. Designed to provide teachers of the English language arts with a basic understanding of linguistics in order to help them improve their capacity for making decisions about instruction.
- EDCI 4421/G Linguistic Applications in Reading-Language Arts** 3 cr.  
Prerequisite: EDCI 3420 or 3430 or consent of department. Designed to provide teachers of the English language arts with a basic understanding of linguistics in order to help them improve their capacity for making decisions about instruction.
- EDCI 4423 Teaching Reading-Language Arts in a Multicultural Society** 3 cr.  
Prerequisite: EDCI 3420 or consent of department. Designed to provide the student with an understanding of language differences in a multicultural society and with a variety of programs designed for teaching students having language and cultural differences.
- EDCI 4423/G Teaching Reading-Language Arts in a Multicultural Society** 3 cr.  
Prerequisite: EDCI 3420 or consent of department. Designed to provide the student with an understanding of language differences in a multicultural society and with a variety of programs designed for teaching students having language and cultural differences.
- EDCI 4425 Materials and Methods for Teaching English as a Second Language** 3 cr.  
Intensive study of linguistic developments in second language acquisition and practices in teaching English to non-native speakers of the language.
- EDCI 4425/G Materials and Methods for Teaching English as a Second Language** 3 cr.  
Intensive study of linguistic developments in second language acquisition and practices in teaching English to non-native speakers of the language.
- EDCI 4432 Teaching Reading in Content Areas** 3 cr.  
Offered each semester and summer session. Prerequisite: EDCI 3100 or 3200 or consent of department. A study of the skills of reading and of methods, materials, and practices which contribute to the effective teaching of reading the subject matter of content areas.
- EDCI 4432/G Teaching Reading in Content Areas** 3 cr.  
Offered each semester and summer session. Prerequisite: EDCI 3100 or 3200 or consent of department. A study of the skills of reading and of methods, materials, and practices which contribute to the effective teaching of reading the subject matter of content areas.

- EDCI 4510 Curriculum Design for Early Childhood** 2 cr.  
Prerequisite: Admission to Level II of the Non-degree Teacher Education Certification program. A study of principles and practices underlying curriculum design in early childhood education.
- EDCI 4510/G Curriculum Design for Early Childhood** 2 cr.  
Prerequisite: Admission to Level II of the Non-degree Teacher Education Certification program. A study of principles and practices underlying curriculum design in early childhood education.
- EDCI 4515 The Use of Play as a Learning Strategy** 2 cr.  
Prerequisite: Admission to Non-degree Teacher Certification program. This course supports the development of the understanding of the crucial role of play in the development and learning of young children.
- EDCI 4515/G The Use of Play as a Learning Strategy** 2 cr.  
Prerequisite: Admission to Non-degree Teacher Certification program. This course supports the development of the understanding of the crucial role of play in the development and learning of young children.
- EDCI 4525 Observation and Assessment in Early Childhood Classrooms** 2 cr.  
Prerequisite: Admission into the Non-Degree Teacher Certification Program. The course is designed to teach strategies for observing, documenting, assessing, and reporting the development of young children and using data to plan curricula and strategies that foster the development of all children in nursery, kindergarten, and primary classrooms.
- EDCI 4525/G Observation and Assessment in Early Childhood Classrooms** 2 cr.  
Prerequisite: Admission into the Non-Degree Teacher Certification Program. The course is designed to teach strategies for observing, documenting, assessing, and reporting the development of young children and using data to plan curricula and strategies that foster the development of all children in nursery, kindergarten, and primary classrooms.
- EDCI 4540 Classroom** 3 cr.  
This course teaches how to create and maintain psychologically and physically safe and challenging environments that foster development, learning, and democratic life skills among groups of children in grades Pre-K to 5. A field component is required for this course.
- EDCI 4540/G Classroom** 3 cr.  
This course teaches how to create and maintain psychologically and physically safe and challenging environments that foster development, learning, and democratic life skills among groups of children in grades Pre-K to 5. A field component is required for this course.
- EDCI 4545 Development of Logico-Mathematical Knowledge** 3 cr.  
This course teaches early childhood and elementary education majors theories and principles related to the development of early math literacy skills in young children, methods and materials for promoting early math literacy, and techniques for integrating early math literacy concepts into themes, projects, play and other learning experiences. Field experiences are a required component of this course.
- EDCI 4545/G Development of Logico-Mathematical Knowledge** 3 cr.  
This course teaches early childhood and elementary education majors theories and principles related to the development of early math literacy skills in young children, methods and materials for promoting early math literacy, and techniques for integrating early math literacy concepts into themes, projects, play and other learning experiences. Field experiences are a required component of this course.
- EDCI 4595 Practicum in Early Childhood Education** 3 cr.  
Prerequisite: EDCI 4510 and EDCI 4540. Supervised experiences in a variety of nursery school and kindergarten situations.
- EDCI 4595/G Practicum in Early Childhood Education** 3 cr.  
Prerequisite: EDCI 4510 and EDCI 4540. Supervised experiences in a variety of nursery school and kindergarten situations.
- EDCI 4605 Trends and Issues in Curriculum and Instruction** 3 cr.  
A systematic analysis and overview of the major trends and issues in curriculum and instruction
- EDCI 4605/G Trends and Issues in Curriculum and Instruction** 3 cr.  
A systematic analysis and overview of the major trends and issues in curriculum and instruction
- EDCI 4620 Curriculum and Instruction for Multicultural Education** 3 cr.  
Analysis of principles of multicultural education as applied to curriculum and instruction. Designed to increase students' awareness and knowledge of cultural integrity and cultural diversity and to familiarize students with school programs, strategies, and materials for developing and implementing a multicultural curriculum.
- EDCI 4620/G Curriculum and Instruction for Multicultural Education** 3 cr.  
Analysis of principles of multicultural education as applied to curriculum and instruction. Designed to increase students' awareness and knowledge of cultural integrity and cultural diversity and to familiarize students with school programs, strategies, and materials for developing and implementing a multicultural curriculum.
- EDCI 4660 Global Education** 3 cr.  
Prerequisite: consent of department. Introduction to global education with an emphasis on both the development of a global perspective and the development of instructional ideas and strategies designed to integrate global education into the school curriculum.
- EDCI 4660/G Global Education** 3 cr.  
Prerequisite: consent of department. Introduction to global education with an emphasis on both the development of a global perspective and the development of instructional ideas and strategies designed to integrate global education into the school curriculum.
- EDCI 4731/G Introduction to Middle School** 5 cr.  
Prerequisite: Concurrent with EDUC 4700. This course, which is part of the Teach Greater New Orleans (TGNO) Practitioner Teacher Program, focuses on the practical dimensions of teaching middle school students and presents teaching as a problem-posing, inquiry-based continuous exercise. Offered for graduate credit only.
- EDCI 4732/G Practitioner Seminar: Effective Middle School Practices** 3 cr.  
Prerequisite: EDCI 4731; concurrent with EDUC 4701. This course, which is part of the Teach Greater New Orleans (TGNO) Practitioner Teacher Program, builds upon the main themes addressed in the Summer Middle School course and focuses on the practical dimensions of teaching. Offered for graduate credit only.
- EDCI 4733/G Middle School Assessment** 3 cr.  
Prerequisite: EDCI 4732; concurrent with EDUC 4702. This course, which is part of the Teach Greater New Orleans (TGNO) Practitioner Teacher Program, builds upon the main themes addressed in the Summer and Fall Middle School courses and also focuses on assessment. Offered for graduate credit only.

- EDCI 4740/G Utilization of Educational Media** 3 cr.  
Prerequisite: EDCI 2740 graduate standing or consent of department. Reviews structure and utilization of media and instructional systems in education and applies the basic concepts of communication to problems in teaching and learning.
- EDCI 4741/G Teaching of Secondary School Mathematics** 5 cr.  
Prerequisites: Concurrent enrollment in EDUC 4700. Methods of teaching for secondary school mathematics students (grades 6-12). This is the Summer course in the Teach Greater New Orleans (TGNO) Practitioner Teacher Program. Offered for graduate credit only.
- EDCI 4742/G Studies in Secondary School Mathematics** 3 cr.  
Prerequisite: EDCI 4741; concurrent with EDUC 4701. This course, which is part of the Teach Greater New Orleans (TGNO) Practitioner Teacher Program, builds upon math concepts from EDCI 4741 and introduces data gathering and estimating probabilities to make statistical inferences, trigonometry, and other advanced mathematics topics. Offered for graduate credit only.
- EDCI 4743/G Integrating Technology in Secondary Mathematics Instruction** 3 cr.  
Prerequisite: EDCI 4742; concurrent with EDUC 4702. This course focuses on the integration of technology into the teaching of middle and secondary school mathematics through the usage of dynamic geometry, computer algebra, electronic spreadsheets, data analysis, and the Internet. The applications of technology to real-world contexts of gathering data and estimating probabilities to make statistical inferences as well as the visualization of two- and three-dimensional objects from different perspectives are explored. Offered for graduate credit only.
- EDCI 4744/G Introduction to the Computer in the Content Areas** 3 cr.  
Prerequisite: consent of department. Designed to prepare educators for the use and application of microcomputers in the content areas, especially in mathematics, language arts and English, social studies, and science. Evaluating and adapting hardware and software for classroom use. Introductory study of the BASIC and Logo languages.
- EDCI 4750/G Curriculum and Instruction in Upper Elementary Education** 3 cr.  
A study of the upper elementary school including curriculum, evaluation, innovative instructional approaches, organizational patterns, and special problems of the elementary school.
- EDCI 4751/G Introduction to Secondary Science Teaching** 5 cr.  
Prerequisites: Concurrent enrollment in EDUC 4700. Effective science teaching methods in secondary education. This is the Summer course in the Teach Greater New Orleans (TGNO) Practitioner Teacher Program. Offered for graduate credit only.
- EDCI 4752/G Secondary Science Practitioner Teacher Seminar I** 3 cr.  
Prerequisite: EDCI 4751; concurrent with EDUC 4701. This course, which is part of the Teach Greater New Orleans (TGNO) Practitioner Teacher Program, builds on the main themes addressed in EDCI 4751 and begins to focus on teaching science in the context of the urban secondary school. Curriculum, instruction, and classroom assessment will be emphasized. Offered for graduate credit only.
- EDCI 4753/G Secondary Science Practitioner Teacher Seminar II** 3 cr.  
Prerequisite: EDCI 4752; concurrent with EDUC 4702. This course, which is part of the Teach Greater New Orleans (TGNO) Practitioner Teacher Program, builds upon the main themes addressed in the summer and fall Secondary Science Teaching course with a focus on the context of the urban secondary school. Conceptual ideas from the summer course will be revisited in light of the participants' actual teaching situations. Portfolio development, praxis preparation, the components of effective teaching, and LATEP will be emphasized. Offered for graduate credit only.
- EDCI 4850/G Analysis of Teacher Questioning Behaviors for Cognitive Growth** 3 cr.  
Prerequisites: EDCI 3100 or EDCI 3200 or consent of the department. An intensive study of questioning theory, research, and practice in order to develop and refine teachers' questioning behaviors related to student cognitive development.
- EDCI 4910 Internship: Alternative Post-Baccalaureate Certification for Lower Elementary Teaching** 6 cr.  
Open only to graduate students admitted to Alternative Post-Baccalaureate Certification for Lower Elementary Education. Prerequisites: completion of a minimum of 12 semester hours of professional education courses in the Teacher Preparation Program at UNO and all appropriate methods courses prior to enrollment in this internship or consent of department. The participant must hold a teaching position in the area of desired certification. The intern will participate in lower elementary classroom teaching (grades one through four), observation, planning, and evaluation conferences, school and community activities, and other related experiences. Enrollment in the internship for two consecutive semesters (12 credits) is required. Not for graduate credit.
- EDCI 4990/G Practicum in Teaching** 3 cr.  
Prerequisite: open only to certified teachers who are changing level of certification and who have a minimum of three years of teaching experience. The students in this course must meet student teaching requirements, at the selected level, as stipulated in the UNO General Catalog under "Requirements for Student Teaching." Classroom teaching, observation, planning, and evaluation conferences, school and community activities, and other school-related experiences to create an awareness of the total school program at the selected level. The time spent in the practicum will be computed on the basis of a minimum of eight hours per week per semester.
- EDCI 4991/G Special Topics in Curriculum and Instruction** 1 cr. min./3 cr. max.  
Prerequisite: consent of department. The content of the courses will be varied from semester to semester. These courses may be repeated but total credit may not exceed six semester hours in any degree program. Section number will correspond with credit to be earned.
- EDCI 4992/G Special Topics in Curriculum and Instruction** 1 cr. min./3 cr. max.  
Prerequisite: consent of department. The content of the courses will be varied from semester to semester. These courses may be repeated but total credit may not exceed six semester hours in any degree program. Section number will correspond with credit to be earned.
- EDCI 4993/G Special Topics in Curriculum and Instruction** 1 cr. min./3 cr. max.  
Prerequisite: consent of department. The content of the courses will be varied from semester to semester. These courses may be repeated but total credit may not exceed six semester hours in any degree program. Section number will correspond with credit to be earned.
- EDCI 4995/G Internship in Secondary Teaching** 6 cr.  
Prerequisite: open only to students admitted to the Alternate Post-Baccalaureate Secondary Teacher Certification Program who have completed a minimum of 12 hours of professional education courses and all appropriate methods courses prior to enrollment in this internship and who presently hold a teaching position in their area of desired certification. The intern will participate in classroom teaching, observation, planning and evaluation conferences,

- school and community activities, and other school-related experiences. Enrollment in two consecutive semesters (12 cr.) is required.
- EDCI 6020 Writing Institute** 3 cr. min./6 cr. max.  
(EDCI 6020 and ENGL 6151 are cross-listed) Offered during the summer session only. An invitational workshop designed for teachers interested in improving writing, theirs and their students'. An intensive exploration of the research and practice in the field. Section number will correspond with credit to be earned.
- EDCI 6060 Advanced Applied Behavior Analysis** 3 cr.  
Prerequisite: EDSP 4060 or consent of the department. Study of applied behavior analysis and single subject research designs to implement educational and habilitative programs in applied settings. Two hours of lecture and two hours of laboratory.
- EDCI 6220 Studies in the Teaching of English in Secondary Schools** 3 cr.  
Designed to assist teachers in developing instructional strategies related to the secondary English program.
- EDCI 6240 Studies in the Teaching of Mathematics in Secondary Schools** 3 cr.  
Designed to assist teachers in developing instructional strategies related to the secondary school mathematics program.
- EDCI 6250 Studies in the Teaching of Science in Secondary Schools** 3 cr.  
An examination of recent trends, methods, issues, and research in middle/secondary school science instruction.
- EDCI 6260 Studies in the Teaching of Social Studies in Secondary Schools** 3 cr.  
An examination of recent trends, methods, problems, and literature in social studies instruction.
- EDCI 6300 Developmentally Responsive Curriculum & Instruction for Young Adolescents** 3 cr.  
This course will introduce teacher candidates to the developmental characteristics of young adolescents, social factors influencing their development, and developmentally responsive curriculum and instructional strategies. This course requires a field experience component.
- EDCI 6310 Foundations of Adult Education** 3 cr.  
(EDCI 6310 and EDAD 6310 are cross-listed) A study of the historical and philosophical foundations of adult education.
- EDCI 6320 Adult Learning and Development** 3 cr.  
(EDCI 6320 and EDAD 6320 are cross-listed) An inquiry into adult learning theories, developmental stages, and the forces which motivate adults to participate in educational programs.
- EDCI 6370 Methods of Adult Education** 3 cr.  
(EDCI 6370 and EDAD 6370 are cross-listed) A study of the variety of techniques and strategies to assess needs, present information, facilitate learning, organize the learning environment, and evaluate the performance of adult learners.
- EDCI 6390 Practicum in Adult Learning** 3 cr.  
(EDCI 6390 and EDAD 6390 are cross-listed) Prerequisites: EDCI/EDAD 6310, 6320 and completion of or concurrent enrollment in EDCI/EDAD 6370 or consent of the department. Application of various learning theories in actual teaching/learning situations.
- EDCI 6410 Early Literacy Development** 3 cr.  
Prerequisites: EDCI 4400/4400/G This course provides an examination of early literacy development and instruction. It introduces teacher candidates to varied approaches to early literacy instruction with an emphasis on strategies drawn from empirical research regarding literacy learning and teaching. Field experiences are a required component of this course.
- EDCI 6430 Information Literacy Instruction for Content Learning** 3 cr.  
Prerequisites: EDCI 4440G. An examination of literacy instruction for children in grades PK-8 in self-contained and departmentalized classroom settings with applications in field settings. Topics include principles of literacy development in upper elementary grades, reading and writing in content areas, assessment of literacy development, materials and methods appropriate for literacy instruction in the middle grades, and planning and organizing for instruction in PK-8 classrooms. Field experiences are a required component of this course.
- EDCI 6434 Developmental Reading** 3 cr.  
A comprehensive treatment of methods, materials, principles, and practices of devising an effective developmental reading program, with emphasis on studies, research, and experimentation.
- EDCI 6435 Assessment Alternatives in Literacy** 3 cr.  
Prerequisite: EDCI 6434 or consent of department. Focuses on techniques for assessing students' reading and writing behaviors within the context of naturally-occurring classroom activities. (Note: This course cannot be used to substitute for required special education coursework leading to educational diagnostician certifications in Louisiana.)
- EDCI 6436 Diagnostic and Remedial Reading** 3 cr.  
Prerequisite: EDCI 6434. Study of diagnostic and remedial techniques in reading. Practicum.
- EDCI 6438 Clinical Diagnosis of Reading Problems** 3 cr.  
Prerequisites: EDCI 6434 and 6436 or consent of department. A course designed for the reading specialist to develop the skills of diagnosing severe reading problems with emphasis on individual diagnostic testing.
- EDCI 6460 Psychology of Reading** 3 cr.  
Prerequisite: EDCI 6434 or consent of the department. Explorations in the psychological processes involved in reading and learning to read.
- EDCI 6490 Seminar in Reading-Language Arts** 3 cr.  
Prerequisite: EDCI 6436 or consent of department. Explorations in recent trends and problems in specific areas of research and practice in reading and language arts. The topic will vary with the instructor. May be taken for graduate credit more than once.
- EDCI 6492 Doctoral Research Seminar: Literacy Studies and Language Education** 3 cr.  
Prerequisites: successful completion of the doctoral qualifying examination, EDFR 6700, EDFR 6710, EDFR 6715 and one of the following: EDCI 6436, EDCI 6460 or EDCI 6490. Critical analysis of research on selected topics in literacy studies and language education. Topics will vary. May be taken twice for credit. Required of all doctoral students in Literacy Studies and Language Education.
- EDCI 6493 Practicum in Diagnostic and Remedial Reading** 3 cr.  
Prerequisite: EDCI 6436. A course designed for the practice of diagnosing and remediating reading disability.
- EDCI 6495 Practicum in Clinical Reading** 3 cr.  
Summer session only. Prerequisites: EDCI 6434, 6436 and 6438 or consent of department. A course designed for the reading specialist to develop the skills in treating severe reading problems with emphasis on individual and small groups.
- EDCI 6500 Foundations of Child Development** 3 cr.  
A study of child development from birth through eleven years of age for teachers working in preschools and grades K-5. Field experiences are a required component of this course.

- EDCI 6510 Advanced Curriculum Design in Early Childhood Education** 3 cr.  
Prerequisite: EDCI 4595 or consent of department. An analysis and application of techniques, planning and evaluative procedures in developing curricula for the preschool and kindergarten
- EDCI 6520 Contemporary Approaches in Early Childhood Education** 3 cr.  
Prerequisite: EDCI 4595 or consent of department. A critical analysis of the conceptual framework and implementation of contemporary programs in Early Childhood Education and their influences in preschool and kindergarten education.
- EDCI 6525 Community, Parent, and School Involvement in the Education of the Young Child** 3 cr.  
Prerequisite: EDCI 4595 or consent of department. The planning, selection, and utilization of human resources, activities, materials, and facilities relating to the education of the young child.
- EDCI 6530 Survey of Measurement in Grades PK-5** 3 cr.  
This course surveys instruments which measure children's growth across the affective, cognitive, and psychomotor domains. Field work is a required component of this course.
- EDCI 6540 Study of Programs in Early Childhood Education** 3 cr.  
Prerequisites: EDCI 6510 and 6520 or consent of department. This course will examine the evolution of the early childhood profession including historical events, people and trends from past to present. Students will explore the impact of current early childhood program such as state and federally supported preschools, parochial preschools, employer-supported child care, and the day care industry, through observation and extensive readings.
- EDCI 6550 Effective Parenting and Understanding Child Behavior** 3 cr.  
Analysis of the nature and process of parent-child interaction through the child-rearing years of infancy and childhood.
- EDCI 6560 The Role of Play in the Development and Learning of Young Children** 3 cr.  
The study of the role play in the development and learning of young children. Subtopics include the meaning of play in diverse cultures, the research basis for including play in the early childhood curriculum, techniques for the facilitation of play activities in early childhood programs, and strategies helpful in the advocacy for play among colleagues, administrators, and curriculum designers.
- EDCI 6590 Seminar: Current Issues and Trends in Early Childhood Education** 3 cr.  
Explorations of recent trends and issues in specific areas of research and practice in early childhood education. The topic will vary with the instructor. May be taken for graduate credit more than once.
- EDCI 6600 Foundations of Curriculum Development** 3 cr.  
A critical analysis of the fundamental principles and practices underlying curriculum development
- EDCI 6610 Elementary School Curriculum** 3 cr.  
A study of the critical issues in the elementary school curriculum and of desirable instructional practices in the major areas of instruction.
- EDCI 6620 Secondary School Curriculum** 3 cr.  
The study and critical evaluation of various designs of the curriculum as they apply to general and specialized education, including content and subject matter areas. There is particular emphasis on course development.
- EDCI 6658 College Curriculum** 3 cr.  
(EDCI 6658 and EDAD 6650 are cross listed) This course provides an over-view of the issues, principles, and practices associated with college curriculum development. Topics include the diversity of philosophical foundations for college curricula; perspectives and models of the college curriculum in higher education. The interaction of theory and practice is an important theme of the course.
- EDCI 6660 The Nature and Development of Social Studies Education** 3 cr.  
A survey of the development of social studies education and an investigation into the purpose of social studies as it relates to citizenship education in American schools.
- EDCI 6670 Evaluation of Curriculum Programs** 3 cr.  
Prerequisites: EDCI 6600 or 6610 or 6620 or consent of department  
A study of methods of gathering information and making decisions with respect to the development and modification of curriculum programs.
- EDCI 6675 Advanced Educational Program Evaluation** 3 cr.  
(EDFR 6675 and EDCI 6675 are cross-listed) Prerequisites EDCI 6670 and EDFR 6710 and 6711 or consent of department. This course is designed to provide students with the research and evaluation skills required to implement various program evaluation models. It is also intended to provide the skills necessary for effectively using the standards of the National Joint Committee on Standards for Program Evaluation as required by state certification guidelines.
- EDCI 6710 Nonfiction Across the Curriculum** 3 cr.  
(EDCI 6710 and EDLS 6710 are cross-listed) A critical examination of nonfiction books used in schools. Focus is on standards for evaluation and curricular uses for informational and biographical works.
- EDCI 6720 Teaching Information Literacy** 3 cr.  
(EDLS 6650 and EDCI 6720 are cross-listed) Prerequisite: EDFR 1000, CSCI 1000, or equivalent course; or permission of the department. Investigation of teaching strategies and instructional materials to implement the Louisiana Content Standards for information literacy in elementary and secondary schools, including the principles of critical thinking and problem-based learning. Designed to provide teachers of language arts, social studies, and sciences, and library media specialists with an understanding of the role and uses of information in the contemporary world.
- EDCI 6744 Intermediate Programming Techniques in BASIC and LOGO for Curriculum Development and Classroom Instruction** 3 cr.  
Prerequisite: EDCI 4744 or EDFR 6750 or consent of department. Students will study intermediate programming techniques in Logo and basic while developing courseware for classroom use. Additionally, they will learn to modify and, when necessary, expand existing software for improved educational applications.
- EDCI 6750 Instructional Systems** 3 cr.  
Prerequisite: consent of department. An examination of the systems approach in the analysis and development of instructional procedures.
- EDCI 6754 Curriculum Development for the Microprocessor Computer** 3 cr.  
Prerequisites: EDCI 6600, EDFR 6750 or consent of department. This course will relate curricular design processes to the development of software. Knowledge about learning theories, motivation, instructional methodologies, curricular designs, etc. will be applied in the development of instructional computing materials. Students will gain an understanding of how software can be made into courseware and into a part of a total curriculum.

- EDCI 6755 Content Applications of Instructional Strategies** 3 cr.  
Prerequisite: EDCI 4850 or consent of department. Over-view of instructional strategies as pertains to content areas and research on the effective teaching of content. Emphasis on lesson design implementation and assessment of content instruction and classroom management practices.
- EDCI 6758 College Teaching** 3 cr.  
(EDCI 6758 AND EDAD 6640 are cross listed) This course provides an overview of the issues principles and practices associated with effective college teaching. Topics examined include learning and diversity; teaching models and strategies teacher and student behaviors and learning outcomes; and instructional improvement strategies. The interaction of theory and practice is an important theme of the course.
- EDCI 6759 College Student Learning** 3 cr.  
(EDCI 6759 and EDAD 6645 are cross-listed) This course examines recent advances in research and theory related to behavioral, humanistic, information-processing, developmental, motivational, social, cognitive, epistemological, developmental, multicultural, constructivist, and other contemporary perspectives on how college students learn. Research and theory in these areas will be studied in ways that emphasize concrete implications for teaching practices, curriculum development, and student services in the design of effective learning environments for students in traditional two-year and four-year classrooms as well as in other non-traditional postsecondary contexts.
- EDCI 6793 Graduate Special Topics in Curriculum and Instruction** 3 cr.  
The content of the course will be varied from semester to semester. This course may be repeated but total credit may not exceed six semester hours in any degree program.
- EDCI 6800 Principles and Practices of Instruction and Assessment** 3 cr.  
This course covers a survey of principles of instruction and assessment for middle and secondary school classrooms, with an emphasis on the interaction of theory and practice. This course prepares teacher candidates to design and deliver instruction and evaluate student learning. Field experiences are a required component of this course.
- EDCI 6860 Teacher Development and Professional Leadership in the Content Areas** 3 cr.  
Prerequisite: EDCI 6755 or consent of the department. Survey of the literature on teacher development and teacher leadership. Special emphasis will be placed on the development of professional skills and collaborative processes necessary for mentoring teachers in various stages of teacher development. Such skills and processes help implement curriculum and acquire expertise in teaching content.
- EDCI 6900 Introductory Doctoral Readings in Curriculum and Instruction** 3 cr.  
Fall Semester. Prerequisite: Screening into the doctoral program. Readings on major theories and ideologies of curriculum and instruction. This course must be taken before the Qualifying Examination. Required of all doctoral students in Curriculum and Instruction.
- EDCI 6902 Topical Doctoral Readings in Curriculum** 3 cr.  
Prerequisite: Admission to the doctoral program; EDCI 6600; EDCI 6900; and EDCI 6610 or EDCI 6620 or EDCI 6310; or by consent of the department. Reading, lectures, and discussion concerning a current curriculum issue. Intensive study of relevant theoretical issues as well as broader spectrum of educational concerns. Required of all doctoral students in General Curriculum. Topics will vary with each offering.
- EDCI 6904 Topical Doctoral Readings in Instruction and Teacher Development** 3 cr.  
Prerequisite: Screening into the doctoral program; EDCI 6900; and EDCI 6755 or EDCI 6860; or consent of the department. Intensive work on one instructional theorist, theory or approach to teacher development. Topics will vary with each offering. Required of all doctoral students in Teacher Development”
- EDCI 6905 Research Critique in Curriculum and Instruction** 3 cr.  
Fall Semester. Prerequisite: Passage of the Doctoral Qualifying Examination; EDFR 6710 6711 and 6715; or consent of the department. Detailed analysis of criticism of recently published research studies in curriculum and instruction. Topics will vary with each offering. Required of all doctoral students in Curriculum and Instruction”
- EDCI 6910 Directed Group Doctoral Study** 3 cr.  
Prerequisite: Passage of the doctoral Qualifying Examination, completion of all research tools, courses, or consent of the department. Directed practice in developing research in curriculum and instruction. Topics will vary with each offering.
- EDCI 6920 Doctoral Research Seminar in English Education** 3 cr.  
Offered every other year. Prerequisite: Passage of the Doctoral Qualifying Examination or by consent of the department. An analysis and critique of current research in English Education, this course is designed to help doctoral students interested in English Education develop deep knowledge of educational research literature and theory in the areas of literature, language and composition teaching. Topics will vary with each offering.
- EDCI 6940 Doctoral Seminar in Mathematics Education** 3 cr.  
Offered every other year. Prerequisite: Passage of the Doctoral Qualifying Examination or consent of the department. Critical analysis and discussion of issues and research topics related to mathematics teaching and learning. Topics will vary with each offering.
- EDCI 6950 Doctoral Seminar in Science Education** 3 cr.  
Offered every other year. Prerequisite: Passage of the Doctoral Qualifying Examination; and one of EDCI 6600 6610 6620; or consent of the department. Critical analysis and discussion of issues and research topics related to science teaching and learning. Topics will vary with each offering.
- EDCI 6970 Doctoral Research Seminar in Human Performance and Health Promotion** 3 cr.  
(EDHP 6970 and EDCI 6970 are cross listed) Offered every other year. Prerequisite: Passage of the Doctoral Qualifying Examination; and one of EDCI 6600, EDCI 6610, or EDCI 6620; or by consent of the department. Critical analysis and discussion of issues and research topics related to Human Performance and Health Promotion. Topics will vary with each offering.
- EDCI 6980 Independent Study in Curriculum and Instruction** 1 cr. min./3 cr. max.  
Prerequisite: advanced graduate standing with consent of department and major professor. Investigation of pertinent problems under the direction of a graduate faculty member. This course may be repeated but total credit may not exceed six semester hours. Section number will correspond with credit to be earned.
- EDCI 6990 Doctoral Seminar in Curriculum and Instruction** 3 cr.  
Offered every Fall. Prerequisite: completions of the Qualifying Examination in Curriculum and Instruction; EDFR 6710 EDFR 6715 and an advanced research tools course; and EDCI 6900, EDCI 6902, EDCI 6904 and EDCI 6905 or consent of the department. Discussion

of critical issues in writing and conduction dissertation research in curriculum and instruction. Required of all doctoral students.

**EDCI 6991 Practicum in Educational Evaluation** 3 cr.  
(EDFR 6991 and EDCI 6991 are cross listed). Prerequisite: EDCI 6675 EDFR 6675 or consent of department. This course is intended to provide students with the opportunity to practice in an actual school setting the program evaluation skills learned in previous courses. The practicum will be conducted under the supervision of a graduate faculty member who is an experienced evaluator.

**EDCI 6992 Doctoral Research Seminar in Curriculum Theory** 3 cr.  
Offered every Spring. Prerequisite: Completion of the Qualifying Examination in Curriculum and Instruction; and EDCI 6900, EDCI 6902, and EDCI 6905; or consent of the department. Critical analysis of research affecting curriculum theory. Required of all doctoral students in General Curriculum and Literacy Studies and Language Education, optional for Teacher Development students.

**EDCI 6994 Doctoral Research Seminar on Classroom Instruction** 3 cr.  
Offered every Spring. Prerequisite: completion of the Doctoral Qualifying Examination; and EDCI 6900 6904 and 6905; or by consent of the department. Critical analysis of research studies on selected topics on instruction and teacher development. Topics will vary with instructor and seminar participants. Required of all doctoral students in Teacher Development optional for other Ph.D. students.

**EDCI 6995 Practicum in Curriculum and Instruction** 3 cr.  
Prerequisite: consent of department. Supervised functional application of educational theory in the student's major area of concentration.

**EDCI 7000 Thesis Research** 1 cr. min./9 cr. max.  
To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned

**EDCI 7040 Examination or Thesis Only** 0 cr.  
No credit Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

**EDCI 7050 Dissertation Research** 1 cr. min./9 cr. max.  
Prerequisite: approval by the candidate's graduate committee. To be repeated for credit until the dissertation is accepted. Section number will correspond with credit to be earned.

## **Educational Foundations and Research**

**EDFR 4990 Special Topics in Education** 3 cr.  
Prerequisite: consent of department and major professor. Topic will vary from semester to semester. This course may be repeated once for credit.

**EDFR 4990/G Special Topics in Education** 3 cr.  
Prerequisite: consent of department and major professor. Topic will vary from semester to semester. This course may be repeated once for credit.

**EDFR 6090 Independent Research in Educational Foundations** 1 cr. min./3 cr. max.  
(EDFR 6090 and EDGC 6090 are cross-listed) Prerequisites: consent of department and major professor. Independent research under the supervision of a graduate faculty member. The course may be repeated but total credit may not exceed six semester hours. Section number will correspond with credit to be earned.

**EDFR 6400 History of American Education** 3 cr.  
The historical evolvement of educational thought and practice in the United States from the colonial period to the present with attention given to significant educational movements and European influences.

**EDFR 6420 Philosophy of American Education** 3 cr.  
A study of trends in the philosophy of education with emphasis upon American education.

**EDFR 6430 Psychological Foundations of Education** 3 cr.  
Application of principles of human growth and development to education.

**EDFR 6432 Analysis of Classroom Learning** 3 cr.  
Application of learning principles and related research to classroom practice.

**EDFR 6440 Socio-Cultural Foundations of Education** 3 cr.  
An examination of the social factors affecting learning and education as well as the changing relationship between the schools and other societal institutions. The course is also designed to develop an understanding and an appreciation of the broader social forces that play a major role in current issues and concerns in education.

**EDFR 6500 Contemporary Urban Education** 3 cr.  
An understanding of the urbanization process in America and its effect upon education. Current problems that relate to education in metropolitan areas will be identified and analyzed.

**EDFR 6620 Educational Measurement and Evaluation** 3 cr.  
Introduction to concepts important to measurement and evaluation in education. Discussion of types of informal and formal assessment; the purpose of assessment; the development and use of valid reliable objective assessment instruments including paper-and-pencil tests and performance assessment; grading; the selection of standardized tests and the interpretation of test scores; and the use of assessment information.

**EDFR 6675 Advanced Educational Program Evaluation** 3 cr.  
(EDFR 6675 and EDCI 6675 are cross-listed) Prerequisites EDCI 6670 and EDFR 6710 and 6711 or consent of department. This course is designed to provide students with the research and evaluation skills required to implement various program evaluation models. It is also intended to provide the skills necessary for effectively using the standards of the National Joint Committee on Standards for Program Evaluation as required by state certification guidelines.

**EDFR 6700 Educational Research** 3 cr.  
This course is an introductory research course for educators. It is designed to provide students with the basic information needed to understand the process of systematically researching a problem and to enable students to evaluate and interpret the research of others.

**EDFR 6705 Quantitative and Qualitative Research Design** 3 cr.  
Prerequisites: EDFR 6700 and admission to the M.A. program or a Ph.D. program in the College of Education or consent of department. Graduate students prepare to become researchers in this course. Epistemology and differences in research paradigms are reviewed. The designs available to researchers in quantitative and qualitative traditions are detailed. Introduction to the process of developing research proposals.

**EDFR 6710 Descriptive Statistics and Inferential Hypothesis Testing** 3 cr.  
Corequisite or prerequisite: EDFR 6705 or consent of department. An introduction to basic statistics for students who plan to conduct research using empirical methods. Topics include descriptive

statistics; probability in sampling; hypothesis testing inferential statistics; and non-parametric statistics.

**EDFR 6715 Introduction to Qualitative Research Methods** 3 cr.  
Prerequisite: EDFR 6705 or consent of department. This course is designed to introduce graduate students to the nature and uses of qualitative research methods in education, with particular emphasis on methods of data collection. Students will be expected to engage in field research experiences.

**EDFR 6720 Applied Regression and Analysis of Covariance** 3 cr.  
Prerequisites: EDFR 6700 and 6710 or consent of department. Applied knowledge of advanced statistical methods. Topics include multiple regression, analysis of variance following multiple comparison tests; analysis of covariance; and log linear models.

**EDFR 6721 Qualitative Research Data Analysis** 3 cr.  
Prerequisites: EDFR 6705 and 6715 or consent of department. This course focuses on methods of data analysis, presentation of results, issues of validity, and the role of the researcher in qualitative research.

**EDFR 6725 Multivariate Statistics and Covariance Structure Analysis** 3 cr.  
Prerequisite: EDFR 6700, 6710, and 6720, or consent of department. Sophisticated multivariate methods of analyzing complex relationships among many variables. Topics include matrix algebra; multivariate analysis of variance; multivariate analysis of covariance; discriminant function analysis; factor analysis; cluster analysis; and path analysis.

**EDFR 6726 Advanced Educational Research Models** 3 cr.  
Prerequisite: EDFR 6725. The course presents three advanced models employed in contemporary educational research: latent trait measurement generalizability theory and confirmatory covariance structure analysis. The purposes of these models are presented and use of computer software that implements the methods is explained.

**EDFR 6728 Quasi-Experimental Designs in Educational Research and Evaluation** 3 cr.  
Prerequisite: EDFR 6720 or consent of department. This course reviews theories of causation and validity in quantitative social science methodology. Varieties of comparison designs and post-hoc analyses will be presented. Appropriate statistical analyses will be discussed.

**EDFR 6730 Research Design in Education** 3 cr.  
Prerequisite: EDFR 6720 and successful completion of the doctoral qualifying examination, or consent of department. This course presents the purpose and principles of quantitative research design. Discussion emphasizes experimental, quasi-experimental, and non-experimental designs. Appropriate statistical analyses for these designs are presented.

**EDFR 6731 Qualitative Research Design and Writing** 3 cr.  
Prerequisites: EDFR 6705, EDFR 6715, and EDFR 6721, or consent of department. This course addresses the process of qualitative research design, the various traditions within qualitative research, selected methodological issues, and writing up research results.

**EDFR 6740 Psychometric Theory and Procedures in Educational Assessment Instruments** 3 cr.  
Prerequisites: EDFR 6720 and Educational Leadership and Foundations 6620 or consent of department. This course presents the theory and practice in the construction of educational assessment instruments. Psychometric theory will be introduced and students are expected to demonstrate all phases of the test development process for norm- and criterion-referenced measurement approaches.

Appropriate statistical procedures for psychometric analysis will be presented.

**EDFR 6750 Computer Applications in Education** 3 cr.  
This course will provide an overview of some of the current uses of microcomputers in education and an evaluation of educational software. Applications in the areas of administration, instruction, and pupil personnel services will be examined.

**EDFR 6990 Independent Study in Education** 1 cr. min./3 cr. max.  
Prerequisites: consent of department and major professor. Independent study under the direction of a graduate faculty member. This course may be repeated but the total credit may not exceed six semester hours. Section number will correspond with credit to be earned.

**EDFR 6991 Practicum in Educational Evaluation** 3 cr.  
(EDFR 6991 and EDCI 6991 are cross listed). Prerequisite: EDCI 6675 EDFR 6675 or consent of department. This course is intended to provide students with the opportunity to practice in an actual school setting the program evaluation skills learned in previous courses. The practicum will be conducted under the supervision of a graduate faculty member who is an experienced evaluator.

**EDFR 6993 Special Topics in Educational Research** 1 cr. min./3 cr. max.  
Prerequisite: consent of department. Topic will vary from semester to semester. Course may be repeated for a maximum of nine semester hours credit. Section number will correspond with credit to be earned.

**EDFR 6995 Doctoral Seminar in Education** 1 cr.  
Prerequisite: open only to doctoral students in residence. Each doctoral student is expected to attend seminar during each semester of required residence. The seminar will consider topics of interest from the major areas of professional education. May be repeated for credit.

**EDFR 7000 Thesis Research** 1 cr. min./9 cr. max.  
To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.

**EDFR 7040 Examination or Thesis Only** 0 cr.  
No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

**EDFR 7050 Dissertation Research** 1 cr. min./9 cr. max.  
Prerequisite: approval by the candidate's graduate committee. To be repeated for credit until the dissertation is accepted. Section number will correspond with credit to be earned.

## Counselor Education

**EDGC 6090 Independent Research in Educational Foundations** 1 cr. min./3 cr. max.  
(EDFR 6090 and EDGC 6090 are cross-listed) Prerequisites: consent of department and major professor. Independent research under the supervision of a graduate faculty member. The course may be repeated but total credit may not exceed six semester hours. Section number will correspond with credit to be earned.

**EDGC 6330 Career Counseling and Life Planning** 3 cr.  
Prerequisite: admission to degree program or consent of department. The theory, nature, and principles of career development and counseling.

- EDGC 6340 Career Counseling Techniques** 3 cr.  
Prerequisites: EDGC 6330, 6430 and admission to degree program or consent of department. The study of techniques for delivering and integrating career development and guidance services through a variety of methods including individual and group counseling workshops, self-study programs, computer programs, and telephone hotlines. Students practice career counseling techniques within a structured setting. This course combines lecture and lab work.
- EDGC 6400 Theories of Counseling** 3 cr.  
Examination of the major theoretical approaches to counseling and their relationship to the counseling process. Analysis and evaluation of the function of theoretical constructs and their impact on counseling practice.
- EDGC 6430 Counseling Techniques** 3 cr.  
An analysis of the theory, dynamics, and practice of counseling clients. Lab experience required.
- EDGC 6435 Substance Abuse Counseling** 3 cr.  
Prerequisites: EDGC 6400, 6430 and admission to a degree program or consent of department. Theories and techniques of counseling substance abusing clients, as well as an examination of the physiological and psychological aspects of substance abuse, will be covered in this course designed for students in counseling related fields. The course will also include practice in various counseling techniques utilized in the treatment of alcohol and drug abusing clients.
- EDGC 6439 Advanced Counseling Theories** 3 cr.  
Prerequisite: admission to degree program or consent of the department. This course provides advanced instruction in the major counseling theories introduced in EDGC 6400. Students examine the original works of major theorists and develop professional expertise in several approaches to the practice of counseling.
- EDGC 6440 Advanced Counseling Techniques** 3 cr.  
Prerequisites: EDGC 6400, 6430 and admission to a degree program or consent of department. This course includes an experiential approach to the development of counseling skills and the conceptualization of client concerns. The application of principles and techniques of major counseling theories will be presented. Skill practice will be included. Lab experience required.
- EDGC 6450 Group Work** 3 cr.  
Prerequisite: EDGC 6430 and admission to degree program or consent of department. An examination of the history, contemporary research findings, and conceptual models, process issues, and ethics involved in the effective practice of group work. Participation in a group experience required.
- EDGC 6452 Introduction to Multicultural Counseling** 3 cr.  
Prerequisite: EDGC 6430 and admission to a degree program or consent of department. The application of counseling techniques to special populations with culturally different backgrounds. The course is designed to help counselors maximize their effectiveness by understanding both similarities and differences of a multicultural population.
- EDGC 6460 Supervised Experience in Group Work** 3 cr.  
Prerequisite: doctoral standing or consent of department. Through supervised experience, examination of contemporary conceptual model, and research findings which emphasize process and content issues, students will learn to lead interpersonal problem solving and task groups effectively.
- EDGC 6500 Contemporary Urban Problems in Counseling** 3 cr.  
Prerequisite: admission to degree program or consent of department. The identification and investigation of contemporary counseling problems and the examination of trends and innovations particularly adaptive to the resolution of these problems.
- EDGC 6525 Employee Assistance Counseling** 3 cr.  
Prerequisites: EDGC 6330, 6400, 6430 and admission to a degree program or consent of department. Theories and techniques of counseling employees in business and industrial settings are covered in this course designed for students in counseling and counseling related fields. Additionally, this course will acquaint students with the history, development, functions and current research on employee assistance programs.
- EDGC 6530 Student Services in Higher Education** 3 cr.  
(EDAD 6530 and EDGC 6530 are cross-listed) A study of student personnel programs in colleges and universities. The history, philosophy, and organization; student rights and responsibilities; discipline; and administration of these programs within the context of the purpose of higher education institutions.
- EDGC 6535 Human Services Counseling** 3 cr.  
Prerequisites: EDGC 6400 and admission to degree program or consent of department. The theory and practice of counseling as applied to human services agencies. The role and function of the counselor in human services agencies are emphasized. A study of the diagnosis and treatment of mental and emotional disorders is required.
- EDGC 6540 Counseling in the Community** 3 cr.  
This course provides an overview of the theory and practice of counseling in human services agencies and other community settings. Emphasis is given to the role, function, and professional identity of community counselors, and to principles and practices of community outreach, intervention, education, consultation, and client advocacy.
- EDGC 6550 School Counseling** 3 cr.  
Prerequisite: EDGC 6400 and admission to degree program or consent of department. This course will provide an introduction to current concepts relative to the school counseling profession. Practical application of concepts within the diverse range of school environments will be covered. Structuring and implementation of a feasible comprehensive counseling program will be emphasized.
- EDGC 6630 Analysis of the Individual** 3 cr.  
Prerequisites: admission to degree program or consent of department. Qualitative and quantitative assessment of the individual in various phases of development, traits, potentialities, and accomplishments. Assessment techniques are examined with regard to health development. Developing a case study and planning treatment are included.
- EDGC 6660 Crisis Intervention Counseling** 3 cr.  
Prerequisites: EDGC 6430 and admission to a degree program or consent of department. The theory and practical application of crisis intervention techniques. Special attention is given to counseling approaches for use with circumstantial and developmental life crises.
- EDGC 6810 Introduction to Supervision in Counseling** 3 cr.  
The theories and techniques counselor supervisors utilize in providing clinical supervision to counselors. The process of administrative supervision utilized by counselor in work settings.
- EDGC 6820 Organization and Administration of Guidance Services** 3 cr.  
The organization and administration of guidance programs.
- EDGC 6830 Counseling Children and Adolescents** 3 cr.  
Prerequisites: EDGC 6400, 6430, and admission to degree program or consent of department. The study of counseling children and adolescents in elementary, middle, and high schools or community

- agencies. Focus on counseling theories, techniques, concepts, interventions, and skills appropriate for children and adolescents.
- EDGC 6840 Family Counseling** 3 cr.  
Prerequisite: admission to a degree program or consent of department. An introduction to the theoretical models and practitioner skills for counseling with families. The course includes specific emphasis on short-term approaches for family-related counseling problems.
- EDGC 6850 Ethical and Professional Issues in Counseling** 3 cr.  
Prerequisite: admission to degree program or consent of department. This course provides an overview of the critical professional issues in counseling with emphasis on current ethical and values-related questions and their relationship to the counselor's role in training, supervision, consultation, appraisal, and research.
- EDGC 6852 Advanced Multicultural Counseling** 3 cr.  
Prerequisites: EDGC 6452, doctoral standing or consent of department. An advanced exploration of issues involved in culturally competent counseling, counseling supervision, and counselor education. Current social and cultural issues, social change theory, oppression models, and advocacy action planning for counselors, supervisors, and counseling faculty members are addressed. All types of human diversity and equity issues in counseling, counseling supervision, and counselor education are reviewed. Students examine their own cultural heritage and racial identity development in relation to the counseling relationship, counseling supervision, and counselor education.
- EDGC 6860 Introduction to Play Therapy** 3 cr.  
Prerequisites: EDGC 6400 (Theories of Consulting), 6430 (Counseling Techniques), admission to degree program, or consent of the department. Introduction to major theories and counseling techniques specifically designed for children ages 2-15. This will include play and creative techniques applicable with various populations in numerous settings and adaptable to individual, family, and group modalities.
- EDGC 6870 Advanced Play Therapy** 3 cr.  
Prerequisites: EDGC 6400, 6430, 6860, and admission to degree program or consent of department. Advanced instruction in play therapy. Strategies for successful practice. Development of specific play therapy skills.
- EDGC 6880 Advanced Counseling Interventions** 3 cr.  
Prerequisites: EDGC 6430, 6440, 6990, master's level internship, doctoral standing or consent of department. The study of advanced interventions utilized by experienced professional counselors in providing counseling services to clients. Models and methods of assessment and use of data in evaluating client problems. Application of theory to practice.
- EDGC 6896 Master's Practicum in Counseling** 1 cr. min./3 cr. max.  
Prerequisite: EDGC 6400, 6430, 6440 and admission to a degree program or consent of department. Observation and counseling in school, higher education, community, and controlled laboratory settings. Lectures, seminars, field work, and related research projects where applicable. One hundred hours of supervised fieldwork is required. Course may be repeated.
- EDGC 6897 Master's Internship in Counseling** 3 cr.  
Prerequisite: approved application and admission to degree program or consent of department. Observation and participation in counseling in schools, central offices, special projects, hospitals, community agencies, and other controlled clinical settings. Three hundred hours of supervised fieldwork is required. Course must be repeated.
- EDGC 6898 Doctoral Practicum in Counselor Education** 3 cr.  
Prerequisite: Admission to doctoral degree program in counselor education. Observation and participation in supervision of master's level counseling students, counseling in school, higher education, community and controlled laboratory settings. Lectures, seminars, field work, and related research projects where applicable. One hundred hours of supervised fieldwork is required.
- EDGC 6899 Doctoral Internship in Counseling** 1 cr. min./3 cr. max.  
Prerequisite: EDGC 6898. Observation and participation in supervision of master's level counseling students, counseling in schools, central offices, special projects, hospitals, community agencies, and other controlled clinical settings. Three hundred hours of supervised fieldwork are required. Course must be repeated until a minimum of 6 credits are earned.
- EDGC 6950 Advanced Ethical, Legal, & Professional Issues in Counselor Education** 3 cr.  
Advanced study of ethical, legal and professional issues in counseling practice, counselor education, and counselor supervision.
- EDGC 6991 Teaching Practicum in Counselor Education** 3 cr.  
Prerequisites: 12 hours of doctoral coursework in counselor education or consent of department. This course is a structured tutorial in teaching counselor education courses at the graduate level. It is designed to provide future counselor educators with the techniques and strategies to improve their teaching skills. Applied and practical principles of effective pedagogy for teaching and learning in higher education are presented. Students receive actual experience in all aspects of classroom teaching.
- EDGC 6993 Special Topics in Counselor Education** 1 cr. min./3 cr. max.  
Prerequisite: consent of department. Topic will vary from semester to semester. Section number will correspond with the credit to be earned. Course may be repeated for a maximum of six semester hours within a particular degree program.
- EDGC 6995 Independent Study in Counselor Education** 1 cr. min./3 cr. max.  
Prerequisites: consent of department and major professor. Investigation of pertinent problems under the direction of a graduate faculty member. This course may be repeated but total credit may not exceed six semester hours. Section number will correspond with credit to be earned.
- EDGC 6996 Advanced Supervision in Counseling** 3 cr.  
Prerequisites: EDGC 6810 and doctoral standing or consent of department. Advanced clinical techniques of supervising counselors. Theory, research, and experience in monitoring and evaluating counselor performance during stages of the counseling process are emphasized. Ethical and legal issues in counseling supervision and counselor education. Field experience required.
- EDGC 6997 Research Seminar in Counselor Education** 3 cr.  
Prerequisite: consent of department. Doctoral students will complete their dissertation proposals under faculty supervision. Course must be completed for credit until dissertation proposal has been accepted by the student's committee. A maximum of three semester hours of credit may be counted in a degree program.
- EDGC 6998 Doctoral Seminar: Consultation in Counselor Education** 3 cr.  
Prerequisite: doctoral standing or consent of department. Discussion and analysis of the approaches and procedures of consultation services in counselor education with emphasis on applying skills to consultation problems in various counseling settings.

**EDGC 7000 Thesis Research** 1 cr. min./9 cr. max.  
To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.

**EDGC 7040 Examination or Thesis Only No credit** 0 cr.  
No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

**EDGC 7050 Dissertation Research** 1 cr. min./9 cr. max.  
To be repeated for credit until the dissertation is accepted. Section number will correspond with credit to be earned.

## Human Performance

**EDHP 1080 Beginning Martial Arts** 1 cr.  
The study of a modern, scientific valid martial art that includes skill development in basic technique, form and sparring. Students who pass the belt test at the end of the course and desire official ranking in the International Shotokan Karate Federation can obtain a certificate, membership card, and appropriate belt by paying a small fee.

**EDHP 2110 Foundations of Human Performance and Health Promotion** 3 cr.  
Prerequisite: consent of department. The study of the history, principles, philosophies, and social foundations of health and physical education.

**EDHP 2170 Measurement and Evaluation in Human Performance and Health Promotions** 3 cr.  
Prerequisite: complete at least one three-credit Math course at or above the 1000 level, EDHP 2110, or consent of department. A study of the fundamental aspects of the measurement and evaluative process. Principles and practices concerning the construction, use, administration, and interpretation of evaluative instruments in human performance and health promotions in school and non-school settings.

**EDHP 2320 Methods of Physical Education and Coordinated School Health in the Elementary Schools** 3 cr.  
Prerequisite: EDUC 1000, 1100, 2000. A course designed for the physical education and elementary education teacher candidate. Focus is on teaching skills and age-appropriate curriculum in health and physical education for grades PK-6. This course includes field experiences and meets for a total of four hours weekly.

**EDHP 3200 Kinesiology and Biomechanics** 3 cr.  
Prerequisite: BIOS 1301, 1303, 1311, and 1313; EDHP 2110; or consent of the department. Special emphasis is given to factors influencing movement; mechanics of movable parts and means of voluntary control; action of joints and muscles in natural movements in daily life in gymnastics in dance and in sports; and the mechanics of posture and common abnormalities of spine and foot.

**EDHP 3201 Physiology of Exercise** 3 cr.  
Prerequisites: BIOS 1301, 1303, 1311, and 1313; EDHP 2110; MATH 1115 and 1116 or MATH 1125 and 1126; or consent of department. A study of the central concepts of interdependence of bodily systems during human movement. Emphasis is placed on the effects of exercise and athletic training upon the systems of the body.

**EDHP 3210 Principles of Motor Development and Motor Learning** 3 cr.  
Prerequisite: EDHP 2110 or consent of department. A study of the foundations of physical growth and development. The course

focuses upon the emergence of motor patterns and skills as a result of growth, maturation, and learning during the period of infancy through adolescence.

**EDHP 3217 Psychological Aspect of Sport and Exercise** 3 cr.  
Prerequisites: EDHP 2110 or consent of department. An introduction and overview of the psychological aspects of sport and exercise. Motivation, arousal/anxiety, cooperation/competition, group and team dynamics, leadership, exercise adherence, psychological skills development, and prosocial development through sport will be discussed within their theoretical frameworks and emphasizing practical application.

**EDHP 3330 Exercise Physiology Laboratory Methods** 3 cr.  
Prerequisites: BIOS 1301, 1303, 1311, 1313; EDHP 2110, MATH 1115 and 1116 or MATH 1125 or 1126 or consent of department. This course is designed to expose students to exercise physiology laboratory methods while developing physical fitness assessment and evaluation skills.

**EDHP 4222 Physical Fitness Programming** 3 cr.  
Prerequisite: EDHP 3201 or 6220 or 6402 or consent of department. Provides skills for physical fitness programming in schools, hospitals, and fitness centers. Training will emphasize techniques used for implementing an individualized exercise program as well as strategies for behavior change.

**EDHP 4222/G Physical Fitness Programming** 3 cr.  
Prerequisite: EDHP 3201 or 6220 or 6402 or consent of department. Provides skills for physical fitness programming in schools, hospitals, and fitness centers. Training will emphasize techniques used for implementing an individualized exercise program as well as strategies for behavior change.

**EDHP 4223/G Fitness Programming for Special Populations** 3 cr.  
Prerequisites: EDHP 3201 or 6220 or 6402 or consent of department. The purpose of this course is to provide the knowledge and skills for conducting fitness assessments and designing exercise programs for persons with chronic diseases and disabilities. This course will not count towards teacher certification in adapted physical education.

**EDHP 4225/G Applied Exercise Physiology: Cardio-respiratory Rehabilitation** 3 cr.  
Prerequisite: EDHP 3201 or 6220 or consent of department. Exercise principles and practices that have application for professionals that work for the prevention of cardio-respiratory diseases or for the rehabilitation of persons so affected.

**EDHP 4320/G Curriculum Development and Instructional Strategies in Human Performance** 3 cr.  
Prerequisite: EDHP 2110 or consent of department. Curriculum development and teaching methods involved in physical education. Two hours of lecture and two hours of laboratory.

**EDHP 4480/G Evaluation and Treatment of Sports Injuries** 3 cr.  
Prerequisite: EDHP 3200 or consent of department. A study of the principles and practices related to the care of the injured. There is special emphasis on care of athletic injuries. One hour of lecture and four hours of laboratory.

**EDHP 4522/G Sport Management** 3 cr.  
Prerequisite: EDHP 2110 or consent of department. Principles of sport and athletic administration for the private sector and for interscholastic and intercollegiate athletic programs. Sample topics include marketing, computer applications, legal knowledge, financing, facilities, and contest management.

**EDHP 4524/G Sport Marketing** 3 cr.  
Prerequisite: EDHP 2110 or consent of department. Provides the foundations for the rapidly emerging discipline of sport marketing.

- Focuses on the theoretical and research issues a sports marketer confronts. The four P's of product, price, promotion, and place within the uniqueness of sport and exercise marketing are featured.
- EDHP 4526/G Sport Law** 3 cr.  
Prerequisite: EDHP 2110 or consent of department. Designed to foster understanding of the legal system as it applies to sport and exercise programs. Knowledge of tort law and how to negotiate a contract are examples of the concepts covered. Tools will enable the professional the ability to develop a risk management.
- EDHP 4528/G Sport Facilities and Event Management** 3 cr.  
Prerequisite: EDHP 2110 or consent of department. Designed to equip sport management professionals with the skills and competencies to manage and operate sport, recreation, fitness, convocation, convention, and other public and private assembly facilities for both on-going and special events. Concepts related to design construction, and technical aspects are also developed.
- EDHP 4990/G Special Topics in Human Performance** 3 cr.  
Prerequisite: consent of department. Topics may vary from semester to semester. This course may be repeated once for credit.
- EDHP 4998/G Practicum in Human Performance** 1 cr. min./6 cr. max.  
Prerequisites: Junior standing or higher, completion of a minimum of 50 percent of the required EDHS/EDHP undergraduate courses and/or consent of department. Supervised experiences in cardiovascular fitness, physical education, physical fitness, coaching, programs for the aging, or related topics. This course may be repeated but total credit may not exceed six semester hours.
- EDHP 6110 Current Issues and Trends in Human Performance** 3 cr.  
Prerequisite: consent of department. A study of current issues and trends in the field of physical education: origin, present status, possible future direction and impact.
- EDHP 6112 Exercise Physiology: Children and Youth** 3 cr.  
Prerequisite: consent of department. A study of acute and chronic physiologic responses or adaptations in children and youth. Topics will include maturational changes in physiologic function during exercise, physical activity and training, and body composition of children and youth.
- EDHP 6140 Sport and Society** 3 cr.  
Prerequisite: consent of department. Development of a theoretical framework and analysis of research relative to cultural-social influences on sports and conversely the impact of sports on society.
- EDHP 6170 Tests and Measurements in Human Performance and Health Promotion** 3 cr.  
Prerequisite: consent of department. A study of the construction, use, administration, and interpretation of evaluative instruments in Human Performance and Health Promotion.
- EDHP 6210 Principles of Motor Learning** 3 cr.  
Prerequisite: consent of department. A study of the relationship between learning theory and research in motor behavior with implications for teaching and performing motor skills.
- EDHP 6211 Growth, Maturation, and Physical Activity** 3 cr.  
This course is designed to expand graduate students' knowledge of the theoretical and applied aspects of growth and maturation in relation to physical activity, sport, and exercise. The course material will be presented from a bio-socio-cultural perspective, integrating elements from biology, motor behavior, psychology, sociology. Particular attention will be given to childhood and adolescent growth and physical activity. Maturational, behavioral, and developmental assessment, and their application to human performance careers will be emphasized.
- EDHP 6217 Psychology of Sport** 3 cr.  
Prerequisite: consent of department. This course will explore sport psychology, particularly those parameters that are social in nature and which influence behavior and performance. Considerations include personality and the athlete, psychological motivation and athletic performance, nature and dynamics of leadership, group dynamics, group cohesion, and social facilitation.
- EDHP 6220 Foundations of Exercise Physiology** 3 cr.  
Prerequisite: consent of department. A study of the functional responses of the body in an exercise state and the specific adaptability of the body to training stimuli. Special consideration will be given to the practical applicability of scientific facts to teaching human performance and athletics.
- EDHP 6224 Exercise Physiology Laboratory Methods** 3 cr.  
Prerequisite: EDHP 6220 or consent of department. Includes an examination of laboratory methods with respect to exercise stress testing, body composition, flexibility, and muscular strength and endurance. Directed toward students seeking ACSM certification.
- EDHP 6230 The Biomechanics of Sport** 3 cr.  
Prerequisite: consent of department. A study of the mechanical aspects of performance in athletics and dance which affect the efficiency and effectiveness of human movement. Special consideration will be given to cinematographic and task analysis techniques to improve evaluation of movement.
- EDHP 6402 Exercise Physiology: Applied Physiology of Aging** 3 cr.  
Prerequisite: consent of department. A study of acute and chronic adaptations to exercises stress in the aged. Topics will include cardiorespiratory, neuromuscular and energy system adaptations, physical activity patterns, and body composition changes in an older population.
- EDHP 6404 Fitness and Aging** 3 cr.  
Prerequisite: EDHP 3201 or 6220 or 6402 or consent of department. Designed for individuals interested in working with the elderly in helping to reduce or retard the aging process and rehabilitate those with chronic conditions through an exercise wellness program.
- EDHP 6406 Adapted Physical Activity for Adults with Disabilities** 3 cr.  
Prerequisite: consent of department. This course examines the etiology, symptomatology, and characteristics of disabling conditions and their implications for therapeutic physical activity intervention in clinical and non-clinical settings. Emphasis is placed upon increasing the quality of life for frail and disabled adults.
- EDHP 6511 Curriculum Development in Physical Education** 3 cr.  
Prerequisite: consent of department. A study of curriculum development, analysis, and trends in physical education.
- EDHP 6522 Public Relations in Sport** 3 cr.  
A review of the nature and function of communication and public relations in sport management. Students will learn the concepts and practices of sports communications through class lectures, writing assignments, case studies and projects. Topics include the field of public relations, its history and evolution, the skills and methods involved in the duties of the SID, public relations specialist, or media relations specialist, and current attitudes and concerns in media relations between athletes, coaches, administrators and owners.
- EDHP 6523 Moral Dilemmas in Sport** 3 cr.  
This course examines ethical principles and theories and how they relate to the various aspects of sport. An investigation of how these theories can be applied to situations, problem solving and decision-making in sport management is also addressed.

- EDHP 6524 Fund Raising in Sport** 3 cr.  
A review of fiscal management principles for use in the administration of sport, recreation and athletic programs. Focus will be placed on economic impact, fiscal budgeting, financial analysis and sources of revenues and expenses for sport organizations. In addition, emphasis will be placed on economic theory and its use in sport management. Topics include media rights, PSL's naming rights, ticket sales, concessions and fund raising.
- EDHP 6525 Graduate Seminar in Sports Management** 3 cr.  
Prerequisite: consent of department. The purpose of the course is to provide advanced preparation for master's-level students in sport management. Both theoretical and applied sport management topics will comprise the course.
- EDHP 6712 Adapted Physical Activities and Health Management for Infants, Toddlers, and Preschoolers with Disabilities** 3 cr.  
Prerequisite: consent of department. This course is designed for educators and health professionals. Focus is on sensory and motor skills of children with delayed or abnormal development. Concepts for early intervention include assessment, reflex analysis, handling and positioning, and play. Also medical apparatus, adaptive equipment, nutrition, feeding techniques, and other IFSP health concerns will be included. Two hours lecture and two hours laboratory.
- EDHP 6970 Doctoral Research Seminar in Human Performance and Health Promotion** 3 cr.  
(EDHP 6970 and EDCI 6970 are cross listed) Offered every other year. Prerequisite: Passage of the Doctoral Qualifying Examination; and one of EDCI 6600, EDCI 6610, or EDCI 6620; or by consent of the department. Critical analysis and discussion of issues and research topics related to Human Performance and Health Promotion. Topics will vary with each offering.
- EDHP 6990 Independent Study in Human Performance** 1 cr. min./3 cr. max.  
Prerequisite: EDHP 6170, EDFR 6700, and advanced graduate standing with consent of department and major professor. Investigation of pertinent problems under the direction of a graduate faculty member. This course may be repeated but total credit may not exceed six semester hours. Section number will correspond with credit to be earned.
- EDHP 6998 Internship in Human Performance** 1 cr. min./6 cr. max.  
Prerequisite: consent of department. Provides a supervised experience in one of the professional domains of the human performance discipline including clinical movement, exercise physiology, gerontology, sport and exercise psychology, sport management, and others.
- EDHP 7000 Thesis Research in Human Performance** 1 cr. min./9 cr. max.  
To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.
- EDHP 7040 Examination or Thesis Only in Human Performance** 0 cr.  
No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

## Health-Safety Education

- EDHS 1110 Personal Health and Wellness** 3 cr.  
A survey of content areas that affect the overall health of the individual, with particular emphasis on health promotion (wellness), decision-making, and health behavior. Content areas include emotional health, sexuality, nutrition, exercise, weight control, environmental health, chronic diseases, consumerism, aging, death, and dying. An alternate assignment will be required of Secondary Education Majors. A field experience is required.
- EDHS 1401 Medical Terminology I** 3 cr.  
Introduces students to the basics of medical terminology, the root of all diagnostic and coding reporting. Teaches students anatomy and physiology and disease pathology of the following systems: digestive, urinary, female reproductive, male reproductive, nervous and cardiovascular. Emphasis is placed on the medical terminology using prefixes, suffixes, roots, and combining forms.
- EDHS 1402 Medical Terminology II** 3 cr.  
Prerequisites: EDHS 1401 or consent of department. Continues instruction in the basics of medical terminology, the root of all diagnostic and coding reporting. Teaches students basic anatomy and physiology and disease pathology of the following systems: cardiovascular, respiratory, blood, lymphatic, immune, musculoskeletal, skin, eye, ear, and endocrine. It also covers pharmacology, psychiatry, oncology, radiology, nuclear medicine, and radiation therapy. Emphasis is placed on the medical terminology using prefixes, suffixes, roots, and combining forms.
- EDHS 1420 Introduction to the Health Care Industry** 3 cr.  
A survey of the American health care industry which includes managed care organizations, history, and present use of medical coding for reimbursement and health care tracking, health care insurance and other third-party payers, health care providers and current business, governmental influence over the health care industry, and office administration.
- EDHS 2111 Introduction to Health Promotion** 3 cr.  
This course will examine the historical precedent of health education and health promotion as well as the background theoretical frameworks and models for improving health through behavior change. It will also focus on application of these theoretical frameworks and models. In addition, the seven responsibility areas and four practice areas of the CHES framework will be discussed. Evolving professional roles and ethical considerations are also included.
- EDHS 2401 ICD-CM Diagnostic Coding I** 3 cr.  
Prerequisites: EDHS 1401 or consent of department. Introduces the concepts of numeric classification of disease and trauma. Begins the instruction in diagnostic coding techniques utilized by all health care practitioners, reimbursement, and tracking administrators. The primary focus is to use the ICD-coding texts in conjunction with knowledge of the medical terminology to code relatively simple examples of insurance claims. Also included are lectures covering governmental and third-party rules and regulations.
- EDHS 2402 ICD-CD-Diagnostic Coding II** 3 cr.  
Prerequisites: EDHS 1401, 1402, 2401, or consent of department. Continues instruction in the concepts of numeric classification of disease and trauma. Covers classifications of specific disease processes and trauma. Students are introduced to how and when to use five digit codes, how to sequence diagnoses and the fundamentals of the "linking processes" between ICD-CM and CPT codes. Also teaches students to identify complications and comorbidity for coding purposes. Emphasis will be placed on coding more complicated claims, i.e., operating room reports, transplant reports, c-section reports.

- EDHS 2403 CPT-Procedural Coding I** 3 cr.  
Prerequisites: EDHS 2401 or consent of department. Introduces students to the three levels of current procedural terminology coding necessary for proper tracking of health care methodologies and reimbursement. A special emphasis is placed on the detail required in the medical record to properly code health care procedures. Covers medical codes for the following: evaluation and management, anesthesia, and surgery.
- EDHS 2404 CPT-Procedural Coding II** 3 cr.  
Prerequisites: EDHS 2403 or consent of department. Continues instruction in the numeric classification of procedural coding. Teaches sequencing of HCPCS codes Levels I and II. Course covers the following systems: digestive, urinary, male/female genital, endocrine, nervous, eye and ear. Additionally, medicine, radiology, and pathology are discussed. Specialty billing codes such as drug, durable equipment, ambulance provider, etc., are presented.
- EDHS 2410 Medical Office Management** 3 cr.  
Prerequisite: EDHS 1420. Teaches those medical office management systems necessary for a successful medical practice. Covers accounting processes, strategies for maintaining good patient relations, record keeping and methodologies, importance of good reception techniques, pre-certification and utilization review procedures, and handling of medical records. Knowledge and use of various office forms, as well as differences between manual and computerized billing systems are included.
- EDHS 2411 Medical Records Management** 3 cr.  
Prerequisite: EDHS 1420. Teaches the importance of medical records. It begins with the definitions and descriptions of the various types of documents considered to be medical records; continues with instructions on how to file, store, retrieve, view, retain, and manage medical records. Also teaches governmental and other third-party rules and regulations governing the management and handling of medical records.
- EDHS 2420 Legal Aspects of Medical Coding** 3 cr.  
Provides general information about the structure and function of the American legal system and its relationship to the health care industry. Teaches the rules and regulations surrounding "fraud" and "abuse" as currently defined in the health care industry. It also provides information concerning medical office accounting procedures for billing, bad debt, insurance handling, and other monetary regulations. Also teaches students how to professionally instruct their supervisors to provide proper coding documentation.
- EDHS 2420 Legal Aspects of Medical Coding** 3 cr.  
Provides general information about the structure and function of the American legal system and its relationship to the health care industry. Teaches the rules and regulations surrounding "fraud" and "abuse" as currently defined in the health care industry. It also provides information concerning medical office accounting procedures for billing, bad debt, insurance handling, and other monetary regulations. Also teaches students how to professionally instruct their supervisors to provide proper coding documentation.
- EDHS 2500 First Aid** 1 cr.  
A course dealing with CPR and other procedures to be employed in first aid treatment, including: wounds, shock, poisoning, and fractures. One hour of lecture and one hour of laboratory.
- EDHS 2610 Nutrition and Health** 3 cr.  
A study of the relationship of health and nutrition, with special emphasis on the investigation of the relationship of nutrition and educational problems. The course is designed to provide a basic understanding of nutrition science and human behavior in an attempt to make research findings applicable in daily nutrition in the lives of children. An effort will be made to bridge the gap between the science of nutrition and its practical application to food consumption and healthful selectivity.
- EDHS 2700 Drug Use and Abuse** 3 cr.  
Designed to provide information concerning drugs which affect the body and the action or reaction of the body to these drugs. In addition, societal as well as personal influences which contribute to drug use will be studied.
- EDHS 2998 Practicum in Medical Coding** 3 cr.  
Prerequisites: EDHS 1401, 1402, 1420, 2401, 2402, 2403, 2411, and a 2.0 in grade point average. An advanced clinical practicum for students enrolled in the medical coding certificate program. Students would work 160 hours per semester in an administrative medical/insurance/managed care setting, such as a physician's office, hospital coding/billing department, insurance claims office, etc., under the on-site direct supervision of a senior medical coder, senior medical records administrator, senior compliance officer, etc.
- EDHS 3101 The Health Aspects of Consumerism** 3 cr.  
This course is designed to provide students with an opportunity to gain knowledge about health-related products and services, recognize fraud and quackery, assess their attitudes about health consumerism, and alter their health consumer behaviors.
- EDHS 3400 Health and Safety Education** 3 cr.  
A course designed to teach health and safety principles with emphasis on organization, administration, and evaluation.
- EDHS 4111/G Epidemiological Principles in Health Promotion** 3 cr.  
Prerequisite: EDHS 2170 or consent of department. The epidemiologic orientation to health and disease, as well as basic descriptive and analytic aspects of epidemiology, will be covered in this course designed for students in health education-related fields.
- EDHS 4190/G Current Problems in Health Promotion** 3 cr.  
Prerequisite: consent of department. Topic may vary from semester to semester. This course may be repeated once for credit.
- EDHS 4200/G Health Promotion Ethics** 3 cr.  
(EDHS 4200 and PHIL 4200 are cross-listed) This course will examine ethical issues arising in the professional and social-policy aspects of health promotion. Coverage includes such topics as: "fact," "value," and "knowledge" regarding health; moral codes in health promotion; concepts of efficiency, fairness, autonomy, and privacy in health contexts; and special moral problems concerning sex, drugs, food, pain, aging, death, health on the job, and generational equality.
- EDHS 4201/G The School Health Program** 3 cr.  
Prerequisite: EDHS 1110 or consent of department. A study of the total school health program - the school environment, health services, and health education. Roles and responsibilities of appropriate school personnel will be explored.
- EDHS 4202/G Community Health Promotion** 3 cr.  
This course is designed to provide participants with methods of community diagnosis and needs assessment, interagency liaison building, and creating linkages between academic sites, community based agencies and local networks. Ideally, the participant will bring to this class a background in health education theory and an understanding of the design, planning, implementation, monitoring, and evaluation of health education programs.
- EDHS 4301/G Methods of Health Education** 3 cr.  
This is a preservice/in-service course designed for health educators. Emphasis will be on current health problems and the importance of developing positive healthy behavior patterns. Current research literature will be examined for selection and use of effective teaching strategies.

- EDHS 4302/G Planning and Evaluating Health Promotion Programs** 3 cr.  
Health promotion rationale, program planning, implementation, monitoring, and evaluation will be covered as well as relevant competencies for Certified Health Education Specialist preparation.
- EDHS 4500/G Pediatric Safety and Crisis Management** 3 cr.  
A course designed to focus on the specialized safety needs of the infant, toddler, and preschool child. Emphasis will be placed on developing hazard reduction programs and responding to special emergencies indigenous to the pediatric group.
- EDHS 4610/G Nutritional Aspects of Health and Physical Fitness** 3 cr.  
The role of nutrition in health promotion and physical fitness is considered through exploring general topics such as nutrient categories, dietary planning, and nutrition education. Also covered are specific areas such as energy balance, weight control, the role of nutrition in fitness and athletic performance, and community nutrition.
- EDHS 4701/G Emotional Health and Critical Issues** 3 cr.  
A study of positive emotional health designed to enhance the student's own emotional health. Promotes the use of techniques to help self and others deal with problem areas having emotional content.
- EDHS 4702/G Death and Dying** 3 cr.  
This course is designed to explore views toward death, dying, grief, and adjustment. Emphasis will be placed upon helping individuals confront fears and feelings related to death, dying, bereavement, and adjustment.
- EDHS 4703/G Stress Management for Health Promotion** 3 cr.  
This course focuses upon the relationship between stress and health, disease and stress management techniques. Also, theory and practical applications for a variety of populations will be included.
- EDHS 4704/G Health Issues of Aging** 3 cr.  
Focuses on strategies for developing and conducting health and fitness promotion programs for older adults. Topics include functional changes, nutrition, exercise, pharmacological aspects, and death and dying.
- EDHS 4705/G Gender and Health** 3 cr.  
This course is designed to help break through personal and social barriers and to promote new insights about the way our gender influences each of the seven dimensions of health. As such it is a part of a process designed to help us learn more about ourselves by approaching gender and all health issues comprehensively.
- EDHS 4706/G Social Marketing for Health Communication** 3 cr.  
Introduces students to the roles of social marketing and media advocacy as health promotion and disease prevention initiatives. Focus will be on audience targeting, cultural issues in message design, selection of communication channels, formative research and evaluation, and theoretical foundations of communication. Relevant competencies for Certified Health Education Specialist preparation will be covered.
- EDHS 4801/G Education for a Healthy Sexuality** 3 cr.  
A study of human sexuality as it affects and influences decisions and interactions relative to a healthy sexuality. This class promotes self-discovery and growth leading to greater personal comfort with sexuality and sexual issues.
- EDHS 4900/G Exercise and Mental Health** 3 cr.  
This class will examine the relationship between exercise and many aspects of mental health. The current knowledge base and theoretical models pertaining to the relationship between exercise and mental health will be examined. Practical application of the concepts will be emphasized. Topics will include exercise prescription, well-being, anxiety, depression, stress, self-esteem, flow, peak experiences, and exercise addiction.
- EDHS 4998/G Practicum in Health Promotion** 1 cr. min./6 cr. max.  
Prerequisites: junior standing or higher completion of a minimum of 50 percent of the required EDHS/EDHP undergraduate courses and/or consent of department. Supervised experiences in health promotion. This course may be repeated but total credit may not exceed six semester hours. Section number will correspond with credit to be earned. Graduate students cannot receive more than nine hours of graduate credit from the combined courses of EDHS 4998 and 6990, or EDHP 4998 and/or 6990.
- EDHS 6110 Graduate Foundations of Health Promotion** 3 cr.  
Prerequisites: EDHP 6170 and EDFR 6700 or EDFR 6705 or consent of department. Background and theory for health promotion in the four major areas of practice, evolving professional roles, and ethics will be presented. The course will cover the seven areas of responsibility and relevant competencies for Certified Health Education Specialist preparation.
- EDHS 6201 Health Promotion and Risk Reduction** 3 cr.  
Prerequisite: EDHP 6170 and EDFR 6700 or EDFR 6705 or the consent of department. This seminar will provide an opportunity for students to learn about health promotion by evaluating the current professional literature in health education and health promotion. The basics of scientific investigation, scientific writing, risk appraisal, intervention strategies, and behavior change on an individual, group, and community level will be explored.
- EDHS 6801 Sexuality and Aging** 3 cr.  
Focus on sexuality and the process of aging in contemporary culture.
- EDHS 6803 Nutrition and Aging** 3 cr.  
The focus of the course is on the nutritional need of the aging. It includes methods on how best to meet the dietary and nutritional requirements of the growing older population.
- EDHS 6990 Independent Study in Health Promotion** 1 cr. min./3 cr. max.  
Prerequisite: advanced graduate standing in the Department of Human Performance and Health Promotion and consent of major professor. Investigation of pertinent health-related problems under the direction of a graduate faculty member. Student must have completed EDHP 6170 or equivalent and EDFR 6700 or EDFR 6705 or equivalent. This course may be repeated but total credit for all independent study (Health-Safety and Health Promotion) may not exceed six semester hours toward a Master's degree in the Department of Human Performance and Health Promotion. Section number will correspond with credit to be earned"
- EDHS 6998 Internship in Health Promotion** 1 cr. min./6 cr. max.  
Prerequisite: consent of department. Provides a supervised experience in one of the professional domains of health promotion. Examples of intern settings include: university student health services, health/community agencies, corporate worksites, and schools.
- EDHS 7000 Thesis Research in Health Promotion** 1 cr. min./6 cr. max.  
May be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.
- EDHS 7040 Examination or Thesis Only** 0 cr.  
Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in

a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

## Library Science

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- EDLS 4200/G Adolescent Literature** 3 cr.  
(ENGL 4240 and EDLS 4200 are cross listed). A survey of books and materials appropriate for use with the adolescent reader. Emphasis will be placed on selection and discussion of books for today's teenagers. This course can be used to satisfy general degree requirements in literature for upper elementary education students only. English majors may not use this course toward the requirements for the major.
- EDLS 4500/G Government Publications** 3 cr.  
Study of municipal, state, and federal documents of the United States and documents of the United Nations. Emphasis is placed on the nature and use of official publications with consideration given to their selection, acquisition, and organization.
- EDLS 4990/G Special Topics in Library Science** 3 cr.  
Prerequisite: consent of department. Topic will vary from semester to semester. This course may be repeated once for credit.
- EDLS 6420 Cataloging and Classification** 3 cr.
- EDLS 6510 Introduction to Reference** 3 cr.
- EDLS 6545 Literature for the Gifted and Talented** 3 cr.  
(EDLS 6545 and EDSP 6545 are cross-listed) An exploration of research relating to reading behavior of gifted youngsters, examination of criteria for assessing books useful in promoting cognitive growth of high-ability children, and selection and utilization of literature with this population.
- EDLS 6650 Teaching Information Literacy** 3 cr.  
(EDLS 6650 and EDCI 6720 are cross-listed) Prerequisite: EDFR 1000, CSCI 1000, or equivalent course; or permission of the department. Investigation of teaching strategies and instructional materials to implement the Louisiana Content Standards for information literacy in elementary and secondary schools, including the principles of critical thinking and problem-based learning. Designed to provide teachers of language arts, social studies, and sciences, and library media specialists with an understanding of the role and uses of information in the contemporary world.
- EDLS 6710 Nonfiction Across the Curriculum** 3 cr.  
(EDCI 6710 and EDLS 6710 are cross-listed) A critical examination of nonfiction books used in schools. Focus is on standards for evaluation and curricular uses for informational and biographical works.
- EDLS 6790 Graduate Special Topics** 3 cr.
- EDLS 6800 School Library Administration** 3 cr.  
Prerequisite: EDFR 1000, CSCI 1000, or equivalent course; or permission of the department. Principles of administering the school library media center, including planning, budgeting and evaluation; establishing policies and procedures; selection and acquisition of collections, supplies, equipment, and computer systems and services; providing programs and activities; communicating with constituencies; the ethics and ethos of the profession.
- EDLS 6990 Independent Study in Library Science** 1 cr. min./3 cr. max.  
Prerequisites: advanced graduate standing and consent of department and major professor. Investigation of pertinent problems under the direction of a graduate faculty member. This course may be repeated but total credit may not exceed six semester hours. Section number will correspond with credit to be earned.

- EDLS 6995 Practicum in Library Science** 3 cr.  
Prerequisite: completion of all other courses the certification program requires, and consent of the department. The practicum is designed to provide the student with an opportunity to acquire and apply competencies essential for effective librarianship in a school's instructional program. The student will be assigned to a school library media center for a total of 120 hours during one semester, where the student will participate in on-the-job experiences in provision and administration of all library services and programs, and in professional activities. This course may not be scheduled concurrently with student teaching.

## Special Education

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- EDSP 3001 Candidate Assessment Field Experience: Special Education** 1 cr.  
Prerequisite: Enrollment in Tier III of teacher education program and completion or concurrent enrollment in EDSP 3640 and 3641. A required field-based assessment that supports teacher candidates seeking special education certification in developing evidence sets aligned with professional standards. Candidates must spend two hours weekly in school settings to implement required field activities. Candidate field work will generate artifacts to document performance of required competencies.
- EDSP 3610 Introduction to Students with Mild-Moderate Disabilities** 3 cr.  
Prerequisite: EDUC 2000 and Admission to Tier II. Must be taken concurrently with EDSP 3611, the field experience course. Study and application of recommended practices related to curriculum development, assessment, teaching strategies, instructional materials, collaboration, advocacy, and professionalism in special education.
- EDSP 3620 Methods of Instruction for Students with Mild/Moderate Disabilities** 3 cr.  
Prerequisite: EDSP 3610 and admission into Tier III or consent of department. Concurrent enrollment in EDSP 3621 Field Experience. Study and application of recommended practices related to teaching language arts, mathematics, science, and social studies to students with mild/moderate disabilities.
- EDSP 3630 Methods of Designing and Assessing Materials for Individuals with Mild Moderate Handicaps** 3 cr.  
Prerequisite: EDSP 3610 or consent of department. The emphasis of the course is on designing and assessing materials to meet the individual educational needs of individuals with mild moderate handicaps.
- EDSP 3640 Effective Instruction for Transition of Students with Disabilities** 3 cr.  
Prerequisite: EDSP 3620, admission into Tier III (or consent of department). This course involves the design and implementation of effective instructional strategies, including transition planning for students with mild-moderate disabilities. Candidates will participate in field experience in school settings and generate artifacts to document performance of required competencies.
- EDSP 3650 Positive Behavior Intervention and Support** 3 cr.  
Prerequisite: This course is open to candidates who have completed EDUC 3110 and EDSP 3620. The focus of this course is positive behavior intervention and support, particularly for students with mild/moderate disabilities. Application of information, strategies, and dispositions associated with effective behavior management is a major component of this course. Candidate will be required to plan, implement, and assess their own behavior management skills in an educational setting that includes grades 1-5. This course includes site-based performance activities.

- EDSP 3660 Practicum in Inclusive Practices** 3 cr.  
Prerequisite: This practicum is open to candidates who have completed EDSP 3640 or who have the consent of the department. It is recommended that candidates enroll in this course the semester prior to student teaching. This practicum involves site-based performance activities, observations, and seminars in inclusive practices for students with mild/moderate disabilities. This course emphasizes meeting the needs of students with disabilities in inclusive general education settings as well as integrating knowledge and skills acquired in the associated coursework in special education.
- EDSP 3982 Independent Study in Special Education and Habilitative Services** 1 cr. min./3 cr. max.  
Prerequisite: Consent of instructor. Investigations of pertinent problems under the direction of a faculty member. This course may be repeated but the total credit may not exceed six semester hours. Section number will correspond with credits to be earned.
- EDSP 4000/G Introduction to the Study of People with Exceptionalities** 3 cr.  
A survey of all areas of exceptionality. Mental, physical, psychological, and social characteristics in an educational frame of reference.
- EDSP 4010/G Introduction Instructional Issues for Students with Severe Disabilities** 3 cr.  
Examination of key issues related to the design, implementation, and evaluation of effective educational services for learners with severe disabilities. Emphasis on population characteristics, current service delivery issues, legislation and litigation, initial instructional design strategies, and student level instructional issues. Students also are introduced to professional development strategies which will be continued throughout the program of study. Students must complete a professional development plan through participation in a field experience cohort as a component of this course.
- EDSP 4020/G Initial Issues in Assessment, Instruction and Evaluation for Students with Mild/Moderate Disabilities** 3 cr.  
This course focuses on the initial study and application of recommended practices for teaching students with mild/moderate disabilities. Candidates will participate in field experiences at school sites and generate artifacts to document performance of required competencies. Available for graduate credit only.
- EDSP 4030/G Intermediate Issues in Assessment, Instruction and Evaluation** 2 cr.  
Prerequisite: EDSP 4020 and admission to Level 2 of the Non-degree (Post-Baccalaureate) Teacher Certification program. Intermediate level study and application of recommended practices for teaching students with mild/moderate disabilities. This course offered for graduate credit only.
- EDSP 4060/G Behavior Modification in Applied Settings** 3 cr.  
The study of and use of behavior modification techniques in applied settings. In conjunction with coursework students must complete a behavior change project in an applied setting.
- EDSP 4230/G Behavior Support in Applied Settings** 2 cr.  
Prerequisite: Admission to Level 2 of the Non-degree (Post-Baccalaureate) Teacher Certification program. This course presents research-based strategies to support positive behavior of students with disabilities. Assigned field work results in artifacts used to document candidate performance. This course offered for graduate credit only.
- EDSP 4240/G Secondary and Transition Issues** 2 cr.  
Prerequisite: Admission to Level 2 of the Non-degree (Post-Baccalaureate) Teacher Certification program, EDUC 4100 and EDSP 4030. A study of effective practices for secondary aged students with disabilities including planning for transition to successful adult work, living, and post-secondary options. This course offered for graduate credit only.
- EDSP 4420/G Foundations in Deaf Education** 3 cr.  
Prerequisite: EDSP 4000 or consent of department. The physiological, psychological, historical, and sociological and cultural aspects of deafness and hearing loss.
- EDSP 4440/G Sign Language I** 3 cr.  
An introduction to sign language and fingerspelling. Receptive and expressive sign language skills will be emphasized with specific focus on the ability to participate in functional communication situational. An overview of the variety of sign systems used in educational settings will be presented.
- EDSP 4450/G Sign Language II** 3 cr.  
Prerequisite: EDSP 4440. A course designed to develop both receptive and expressive fluency in Sign Language(s) according to the needs of the individuals in the class.
- EDSP 4510/G Introduction to the Gifted and Talented** 3 cr.  
Characteristics, identification, needs, teacher qualifications, and organizational patterns for the gifted and talented.
- EDSP 4630/G Humanistic Approaches to Managing Students with Behavioral Problems** 3 cr.  
Group and individual interventions and classroom management techniques for students with behavioral problems. Emphasis on humanistic conceptual models of student variance.
- EDSP 4721/G Effective Instruction of Students with Mild/Moderate Disabilities: Pre-service Practitioner Seminar** 5 cr.  
Prerequisite: Concurrent with EDUC 4200. Introductory course in the Teach Greater New Orleans (TGNO) Practitioner Teacher Program. Study and application of key issues and best practices in teaching students with mild/moderate disabilities. Content areas of study include federal and state legislation and litigation, design, implementation, and evaluation of effective service delivery, transition issues, and classroom management and behavior support. Offered for graduate credit only.
- EDSP 4722/G Effective Instruction of Student with Mild/Moderate Disabilities: Initial Practitioner Seminar** 3 cr.  
Prerequisites: EDSP 4721G, concurrent enrollment in EDUC 4710. Study and application of effective instructional and behavioral practices for teaching students with mild/moderate disabilities. Second EDSP course in the Teach Greater New Orleans(TGNO) Practitioner Teacher Program. Builds on the knowledge and skills acquired in 4721G. Professional development, school improvement, and all portfolio components of effective teaching are introduced. Offered for graduate credit only.
- EDSP 4723/G Effective Instruction of Students with Mild/Moderate Disabilities: Intermediate Practitioner Seminar** 3 cr.  
Prerequisites: EDSP 4722G, EDUC 4701; concurrent enrollment in EDUC 4702. Continued application and refinement of instructional, transition, and behavioral practices for teaching students with mild/moderate disabilities. Third EDSP course in the Teach Greater New Orleans (TGNO) Practitioner Teacher Program. Emphasis on advanced instructional and behavioral issues, and refinement and completion of a teaching portfolio. Offered for graduate credit only.
- EDSP 4775/G Tests and Measurements for Exceptional Individuals** 3 cr.  
Prerequisite: Minimum grade of C in EDCI 3140 or consent of department. Definition and terminology in tests and measurements as

- employed with exceptional individuals. Description, analysis, and interpretation of various formal and informal evaluation instruments and practices.
- EDSP 4776/G Practicum in Tests and Measurements for Individuals with Exceptionalities** 3 cr.  
Prerequisites: EDSP 3620, 4775, or consent of the department. Conducted under the supervision of university personnel. Required activities include exposure to and experience with informal testing, use of formal evaluation results to generate Individual Education Plans (IEP's), and participation in IEP conferences.
- EDSP 4800/G Introduction to Individuals Who Have Visual Impairments** 3 cr.  
Prerequisite: EDSP 4000 or consent of department. A survey of the development of the visual system and the needs of individuals with a visual impairment. Designed to assist teachers and other service providers in the knowledge of 1) intervention strategies to be used with students who are visually impaired and 2) various service delivery systems for individuals with a visual impairment.
- EDSP 4810/G Structure and Foundation of the Eye** 3 cr.  
Designed to provide an orientation to the parts of the eye and their functions; abnormalities and conditions that result in varying degrees of visual loss; and general considerations which these losses require in educational programming.
- EDSP 4820/G Introduction to Braille** 3 cr.  
Mastery of the English Braille Code Grade II (Literacy Braille Format); emphasis will be placed on transcribing through the visual modality.
- EDSP 4830/G Orientation and Mobility Training for Individuals who are Visually Impaired** 3 cr.  
Concepts and techniques involved in orientation, mobility, and daily living skills for individuals with a visual impairment.
- EDSP 4990/G Special Topics in Special Education and Habilitative Services** 3 cr.  
Prerequisite: consent of the department. Topics will vary from semester to semester. This course may be repeated once for credit.
- EDSP 6000 Communication and Literacy Instruction for Students with Significant Disabilities** 3 cr.  
Prerequisite: Admission to Graduate Alternate Certification program in Special Education-significant disabilities or consent of department. A study of assessment and instructional strategies to teach nonsymbolic communication, prelanguage/language and literacy skills. Design of alternative and augmentative communication systems for learners with severe disabilities. Emphasis on strategies to increase meaningful communication and literacy opportunities across multiple partners, situations and settings.
- EDSP 6010 Strategies for Managing Group Behaviors of Exceptional Populations** 3 cr.  
Prerequisite: EDSP 4000 or consent of department. Effective strategies for group and whole school management with an emphasis on exceptional populations.
- EDSP 6030 Health and Physical Considerations for Individuals with Severe Disabilities** 3 cr.  
Prerequisite: EDSP 4010 or consent of the department. An overview of educational considerations for students with special needs related to physical disabilities and/or health care. Emphasis on adaptation of curriculum and setting to meet the identified health and safety needs of learners with physical and multiple disabilities. Overview of positioning and handling techniques as well as safety and health care procedures including suctioning, seizure management, and gastronomy tube feeding.
- EDSP 6040 Intermediate Instructional Issues for Students with Severe Disabilities** 3 cr.  
Prerequisites: EDSP 4060 and 4070 or consent of department. Continued examination of key issues related to the design, implementation, and evaluation of effective educational services for learners with severe disabilities. Emphasis on curriculum design, effective instructional strategies, and classroom level instructional issues. Students must complete a professional development plan through participation in a field experience cohort as a component of this course.
- EDSP 6050 Advanced Instructional Issues for Student with Severe Disabilities** 3 cr.  
Prerequisites: EDSP 4010 or consent of department. Continued examination of key issues related to design, implementation, and evaluation of effective educational services for learners with severe disabilities. Emphasis on advanced instructional issues including: meeting the needs of special populations, making data-based decisions, addressing building level instructional issues, and adjusting existing strategies to improve their effectiveness. Students must complete a professional development plan through participation in a field experience cohort as a component of this course.
- EDSP 6060 Advanced Applied Behavior Analysis** 3 cr.  
Prerequisite: EDSP 4060 or consent of the department. Study of applied behavior analysis and single subject research designs to implement educational and habilitative programs in applied settings. Two hours of lecture and two hours of laboratory.
- EDSP 6070 Educational Team Strategies** 3 cr.  
Prerequisite: EDSP 4010 or consent of the department. A study of approaches to organizing the resources of early intervention and educational teams that meet the needs of individuals with severe disabilities more effectively. Emphasis on team strategies related to assessment, design of instructional and intervention strategies, program development, and evaluation. Students enrolled in the severe/profound disabilities area must complete a professional development plan through participation in a field experience cohort as a component of this course.
- EDSP 6080 Organization and Administration of Special Education and Habilitative Services** 3 cr.  
An analysis of procedures, supervisory techniques, and applications of communication media to provide services for individuals with exceptionalities by using local, state, and national resources.
- EDSP 6085 Foundations in Early Childhood Education and Early Intervention** 3 cr.  
Course includes the study of typical and atypical development during the first five years of life. Included is an overview of assessment, curriculum, and intervention models appropriate for young children with disabilities and their families.
- EDSP 6090 Strengthening Family and Community Partnerships** 3 cr.  
Examination of the impact of individuals with significant disabilities on the family. Emphasis on techniques for involving family and community resources in the design, delivery, and evaluation of education/intervention services.
- EDSP 6210 Effective Instruction and Support Strategies for Individuals with Autism Spectrum Disorders - 1** 3 cr.  
An exploration of how the diagnosis of autism is established a review of current research and a consideration of the management of people with autism in schools and in the community.

- EDSP 6220 Effective Instruction and Support Strategies for Individuals with Autism Spectrum Disorders – II** 3 cr.  
Prerequisite: EDSP 6210 or consent of department. Study and application of evidence based strategies to implement and evaluate effective educational programs for individuals with Autism Spectrum Disorder. This course requires application in field settings.
- EDSP 6420 Educational Audiology** 3 cr.  
The application of current audiological technology and techniques to deaf education and speech therapy for the deaf. A basic course in audiology for teachers in all areas of Special Education, but particularly for those in deaf education, assessment, and supervision of Special Education.
- EDSP 6440 Language Development and Instructional Strategies for Deaf and Hard of Hearing Child** 3 cr.  
A survey of language development focusing on linguistic principles in language acquisition of hearing and of deaf and hard of hearing children. Linguistic structural attributes of English and American Sign Language will be presented as well as a review of current strategies of language assessment and instruction for deaf and hard of hearing students.
- EDSP 6460 Methods of Teaching Speech and Speechreading to Deaf and Hard of Hearing Students** 3 cr.  
No prerequisites. The courses in the area of Deaf Education can be taken independently of one another.
- EDSP 6470 Home School Education for Deaf Infants and Toddlers** 3 cr.  
Theories of early childhood development and related instructional methodologies for hearing impaired infants and toddlers and their parents.
- EDSP 6480 Instruction Strategies and Curriculum Development for Deaf and Hard of Hearing Students** 3 cr.  
Utilization of curricular and language theories and principles of deaf education to create or choose a practical sequence of learning activities for deaf and hard of hearing students. Includes methods of teaching basic subjects to deaf students.
- EDSP 6510 Social and Emotional Needs of the Gifted** 3 cr.  
Prerequisites: EDSP 4510 or consent of department. Defines the distinctive emotional needs of the gifted and presents strategies that educators can use to help the gifted meet those needs at school and at home.
- EDSP 6540 Educational Strategies for the Gifted and Talented** 3 cr.  
Prerequisite: EDSP 4510 or 4510/G and admission to certain programs. Curricular methods, materials, and resources for teaching the gifted and talented.
- EDSP 6545 Literature for the Gifted and Talented** 3 cr.  
(EDLS 6545 and EDSP 6545 are cross-listed) An exploration of research relating to reading behavior of gifted youngsters, examination of criteria for assessing books useful in promoting cognitive growth of high-ability children, and selection and utilization of literature with this population.
- EDSP 6550 Gifted Talented: Curriculum Development and Program Organization** 3 cr.  
Prerequisites: EDSP 4510 and EDCI 6600 or consent of department. Procedures for curriculum development and program organization for the gifted and talented.
- EDSP 6555 Educational Provisions & Classroom Management of Children with Disabilities in Early Intervention Programs** 3 cr.  
Prerequisite: EDSP 4550 or consent of department. In-depth examination of assessment techniques educational procedures and intervention strategies appropriate for early childhood programs serving children who are disabled.
- EDSP 6560 Communication and Literacy** 3 cr.  
Typical and atypical language development and appropriate prevention and intervention procedures for children during the first five years of development.
- EDSP 6570 Interventions with Infants Who Have Known or Suspected Disabilities** 3 cr.  
Prerequisite: EDSP 4550 or consent of department. A study of typical and atypical development during the first three years of life. Examination of preventive and ameliorative strategies for infants who have known or suspected disabilities and their families.
- EDSP 6610 Advanced Methods of Teaching Students with Learning and Behavior Problems** 3 cr.  
Prerequisite: EDSP 4601 or consent of department. Explores the theory and research underlying the various approaches used in teaching students with mild/moderate handicaps.
- EDSP 6620 Advanced Methods of Teaching Basic Subjects to Students with Mild/Moderate Disabilities** 3 cr.  
Prerequisite: EDSP 6610 or consent of department. Advanced study and application of recommended practices related to teaching language arts, mathematics, science, and social studies to students with mild/moderate disabilities.
- EDSP 6625 Advanced Transition Planning for Students with Disabilities** 3 cr.  
Prerequisite: EDSP 6040 or both EDSP 6610 and 6620 or consent of the department. An analysis of the role of a special education teacher in planning, instructing, and implementing a program for students with disabilities which supports the transition from school to adult roles including work. 1996 - 1998 Catalog Prerequisite: EDSP 4000 or EDSP 4010 or consent of the department.
- EDSP 6630 Advanced Methods of Designing and Assessing Materials for Mild Moderate Handicapped Students** 3 cr.  
Prerequisite: EDSP 6620 or consent of the department. An in-depth study of the selection, use, analysis, adaptation and development of instructional materials and curricula. Emphasis will also be placed on research and trends in materials and curricula development.
- EDSP 6640 Language Development Diagnosis Intervention: Mild Moderate Disabilities** 3 cr.  
Language development, diagnosis, and intervention with students who have mild/moderate language learning disabilities.
- EDSP 6775 Individual Intelligence Testing** 3 cr.  
Rationale and practicum for those individual intelligence tests most frequently used in educational assessment.
- EDSP 6780 Psychoeducational Assessment of Individuals with Exceptionalities** 3 cr.  
Prerequisite: EDSP 4775 or consent of department. Rationale for and clinical application of psychoeducational assessment procedures. Analysis and synthesis of diagnostic information used in designing appropriate educational programs and planning for individuals with exceptionalities.
- EDSP 6781 Consultation and Collaboration in Special Education** 3 cr.  
Process and content considerations of consultation and collaboration used in the teaming approach. Applications of such methodolo-

- gies will be to the inclusive settings (school work and community) in the delivery of services to individuals with exceptionalities.
- EDSP 6785 Diagnostic Prescriptive Strategies for Individuals with Exceptionalities** 3 cr.  
Prerequisites: EDSP 4775 and 6780 or consent of department. vPrecision assessment of and programming for individuals with exceptionalities; administration of informal and selected formal evaluation instruments; and interpretation and application of results to instructional programming for individuals in a variety of settings.
- EDSP 6840 Instructional Strategies for Individuals with Visual Impairments** 3 cr.  
Prerequisite: EDSP 4800 or consent of the department. The utilization, development, and evaluation of methods and materials for persons with visual impairments and the study of the organization of program components and priorities for individuals with visual impairments.
- EDSP 6850 Advanced Practices in Visual Impairments: Braille II – Nemeth Code** 3 cr.  
Prerequisites: EDSP 4800, 4820, 4830, or consent of the department. A study of advanced educational strategies utilized in teaching students with visual impairments. Examination of procedures for teaching braille reading, the Nemeth braille code for mathematics and science, and the use of electronic devices for reading and orientation and mobility.
- EDSP 6860 Low Vision and Its Educational Implications** 3 cr.  
Prerequisites: EDSP 4800 and 4810 or consent of the department. A study of the educational strategies utilized in teaching students with low vision. Examination of the procedures and equipment used for educating students who are partially sighted.
- EDSP 6870 Education of Individuals with Deaf-Blindness and Multiple Disabilities** 3 cr.  
Prerequisites: EDSP 4440 and 4800 or consent of the department. Characteristics assessment and educational strategies for individuals with deaf/blind and multiple disabilities. Habilitation and vocational considerations will be addressed.
- EDSP 6900 Practicum in Education Habilitation of Individuals with Severe Profound Handicaps** 3 cr.  
Prerequisite: consent of department. Field work, observations, seminars, lectures, and/or empirical research projects in programs that provide services for individuals with severe profound handicapping conditions.
- EDSP 6945 Practicum in Education of the Hearing-Impaired Student** 3 cr.  
Prerequisite: consent of department. Field work, observations, seminars, lectures, and/or empirical research projects with hearing impaired children or adults in an academic or rehabilitation setting.
- EDSP 6950 Practicum in Gifted and Talented** 3 cr.  
Prerequisites: EDSP 6540 and consent of department. Field work, observations, seminars, lectures, and/or empirical research project in gifted and talented.
- EDSP 6955 Practicum in Early Intervention** 3 cr. min./6 cr. max.  
Offered each semester. Prerequisite: consent of department. Field work, observations, seminars, lectures, and/or empirical research project in early intervention programs for the children with disabilities. Section number will correspond with the credit hours to be earned. Course may be repeated for a maximum of six credit hours.
- EDSP 6960 Practicum in Mild Moderate Special Education and Habilitative Services** 3 cr.  
Prerequisite: EDSP 6620 and consent of department. Field work, observations, seminars, lectures and/or empirical research projects in programs that provide services for individuals with mild moderate conditions.
- EDSP 6961 Practicum in Mainstreaming Students with Mild Moderate Handicapping Conditions** 3 cr.  
The Practicum in Mainstreaming Students with Mild Moderate Handicapping Conditions will provide students with field work, observation, seminars, lectures, and applied research projects in education students. Students should have completed all courses required for certification in mild moderate special education. Consent of the department is required.
- EDSP 6962 Student Teaching in Special Education** 9 cr.  
Student Teaching in Special Education is open to those graduate students who are working toward certification in special education and who do not currently hold a teaching position. Field work, observations, seminars, lectures, and applied research projects in programs that provide services for individuals with handicapping conditions. Consent of the department is required. Students should have completed all courses required for certification in special education area of concentration.
- EDSP 6963 Internship in Special Education** 6 cr.  
The internship is open only to those students who presently hold a teaching position in a special education classroom and are under teaching contract for an academic school year. Professional teaching responsibilities, observations, seminars, lectures, and applied research projects are required. Students should have completed all courses required for certification in special education area of concentration. The approval of the Department of Special Education and Habilitative Services is required. (6 credits per semester for a total of 12 for the academic year)”
- EDSP 6964 Computers and Assistive Technology in Special Education** 3 cr.  
Critical issues related to using computers and assistive technology to accommodate educational, social, and vocational needs of people with exceptionalities.
- EDSP 6970 Practicum in Psychoeducational Diagnosis** 3 cr.  
Prerequisite: consent of the department. Conducted under the direct supervision of certified educational consultants or certified assessment teachers in on-site settings. Required activities include observation, preparation, testing, scoring and interpretation, staffing, report writing, and participation in Individual Educational Plan conferences.
- EDSP 6980 Practicum in Visual Impairment** 3 cr.  
Prerequisites: EDSP 4810, 4820, 4830, 6840, and 6850 or consent of department. The course consists of supervised field work, observations, seminars, lectures, and/or empirical research in the area of visual impairment.
- EDSP 6981 Seminar in Special Education and Habilitative Services** 3 cr.  
Prerequisite: admission by permission of the Department of Special Education and Habilitative Services. Discussion of critical issues, critique of literature, development of theories, models with respect to handicapping conditions.
- EDSP 6982 Independent Study in Special Education and Habilitative Services** 1 cr. min./3 cr. max.  
Prerequisite: consent of the department and major professor. Investigations of pertinent problems under the direction of a graduate faculty member. This course may be repeated but total credit may

not exceed six semester hours. Section number will correspond with credit to be earned.

**EDSP 6985 Internship in Special Education and Habilitative Services** 3 cr.

Prerequisite: consent of the department. Assignment to a variety of educational clinical and service settings that are concerned with the diagnosis remediation and/or treatment of individuals with exceptional needs.

**EDSP 6990 Selected Topics in Special Education and Habilitative Services** 1 cr. min./3 cr. max.

Prerequisite: consent of the department. Topic will vary from semester to semester. Section number will correspond with the credit hours to be earned. Course may be repeated for a maximum of six semester hours within particular degree program.

**EDSP 7000 Thesis Research** 1 cr. min./9 cr. max.

To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.

**EDSP 7010 Introductory Doctoral Seminar: Leadership Roles in Special Education and Habilitative Services** 3 cr.

Prerequisite: doctoral student standing in the Department of Special Education and Habilitative Services or consent of department. An initial study of the roles and issues related to personnel preparation research and systems intervention in the field of special education and habilitative services.

**EDSP 7015 Doctoral Seminar in Systems Intervention** 3 cr.

Prerequisite: EDSP 7010 and doctoral student standing in the Department of Special Education and Habilitative Services or consent of department. An examination of the leadership roles and requisite skills for a systems change agent within the field of special education and habilitative services.

**EDSP 7020 Doctoral Seminar in Personnel Preparation** 3 cr.

Prerequisite: doctoral student standing in the Department of Special Education and Habilitative Services or consent of department. An examination of the role of the university faculty member involved in the preparation of special education personnel.

**EDSP 7025 Doctoral Seminar in Special Education Research** 3 cr.

Prerequisite: doctoral student standing in the Department of Special Education and Habilitative Services or consent of department. An examination of the leadership roles for a researcher within special education and habilitative services.

**EDSP 7030 Advanced Doctoral Seminar: Leadership Roles in Special Education and Habilitative Services** 3 cr.

Prerequisites: EDSP 7010, 7015, 7020, and 7025 and doctoral student standing in the Department of Special Education and Habilitative Service or consent of the department. Advanced study of the roles and issues related to personnel preparation, research, and systems intervention in the field of special education and habilitative services.

**EDSP 7040 Examination or Thesis Only** 0 cr.

No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

**EDSP 7050 Dissertation Research** 1 cr. min./9 cr. max.

Offered each semester. Prerequisite: approval by the candidate's graduate committee. To be repeated for credit until the disserta-

tion is accepted. Section number will correspond with credit to be earned.

## Education

**EDUC 1010 Introduction to Teaching as a Career** 3 cr.

This course is designed to acquaint prospective teacher candidates with the major issues associated with the teaching profession. This course addresses the UNO Teacher Education Conceptual Framework that prepares teacher candidates to be reflective practitioners. Prospective teacher candidates will demonstrate proficiency in speaking, writing, technological performance and basic effective communication skills needed in the education profession. This course satisfies the UNO requirement for Oral Competency as each prospective teacher candidate must demonstrate competence in the techniques of oral communication.

**EDUC 2000 Meeting Needs of All Learners I** 3 cr.

Prerequisites: EDUC 1000 or concurrent enrollment in EDUC 1000. This course, the first in a three-course series (EDUC 2000, 3000, and 4000), serves to introduce education majors to a broad range of topics designed to facilitate their work as teachers of diverse learners in diverse settings. This course, as well as the two courses that follow in this series, will be presented in three modules: 1) School Structures and Educational Philosophy, 2) Diversity, and 3) Technology. Field experience is required in this course.

**EDUC 2100 Children & Adolescent Development for Teachers** 3 cr.

This course is taken prior to admission to the teacher education program. This course presents a balance of research findings, theory, and application relevant to the study of child development from infancy through adolescence, as developmental stages and tasks are relevant to classroom teachers. The emphasis throughout the course is on the implications and use of developmental information in classrooms.

**EDUC 2200 Principles of Teaching, Learning & Assessment** 3 cr.

This course will engage teacher candidates in discussions and activities dealing with fundamental aspects of educational philosophies, learning styles and theories, classroom management, assessment, curriculum development and lesson planning, and Louisiana state benchmarks and standards. Attention will focus on adapting instruction to meet the needs of diverse learners and the roles of educators in effective schools.

**EDUC 2204 Introduction to Secondary Education** 4 cr.

This course introduces candidates to the knowledge, dispositions, and skills necessary to teach diverse student populations in metropolitan secondary school settings. This course includes site-based performance activities.

**EDUC 3000 Meeting the Needs of All Learners II** 3 cr.

Prerequisites: EDUC 2000 and acceptance into Tier III of the teacher education program. This course, the second in a three-course series, serves to give education majors an opportunity to improve and apply the skills required for addressing the needs of diverse learners in diverse settings. This course, as well as the two other courses in this series, will be presented in three modules: 1) School Structures and Educational Philosophy, 2) Diversity, and 3) Technology. Field experience is required in this course.

**EDUC 3001 Tier III Performance Assessment** 0 cr.

Prerequisite: Teacher Candidates must be enrolled in the final semester of Tier III coursework. This course supports students in their performance assessments for their certification areas. Successful completion of this course will allow candidates to enter Tier IV (Student Teaching). As part of the assessment, candidates

- create and electronic portfolio that provides evidence of meeting Specialty Professional Area (SPA), State, and Unit Standards.
- EDUC 3100 Differentiated Curriculum & Instruction** 3 cr.  
Prerequisites: Admission into Tier III and concurrent enrollment in EDSP 3001, the one-hour field experience. This course focuses on differentiating strategies to diagnose learner needs, adapt and modify curriculum materials, plan and implement instruction, develop assignments, and evaluate learning outcomes.
- EDUC 3110 Behavior Support and Classroom Management** 3 cr.  
Prerequisites: Acceptance into Tier III. This course focuses on classroom management within school settings. It includes procedures for group behavior management, strategies for assessing and responding to individual student behavior, using a problem-solving approach for changing behavior, and supporting appropriate behaviors in learning activities and settings.
- EDUC 4001/G Meeting the Needs of All Learners** 2 cr.  
Prerequisite: Admission to the Non-degree Teacher certification program and skills in basic technology (i.e., computer presentation software, word processing software, internet use and research, etc.). This course serves to introduce Graduate Alternate Certification candidates to a broad range of topics designed to facilitate their work as teacher of diverse learners in inclusive settings. Topics to be covered include: diversity in the classroom (cultural, social, racial, gender, ability, ethnicity, etc.), school structure, and educational philosophy. Field experience is required in this course.
- EDUC 4100/G Differentiated Curriculum & Instruction** 3 cr.  
This course focuses on the need to differentiate strategies to meet the needs of all learners. Candidates learn to diagnose students' needs, adapt and modify curriculum materials, plan and implement instruction, develop assignments, and evaluate learning outcomes. Candidates will participate in field experiences at school sites and generate artifacts to document performance of required competencies. Offered for graduate credit only.
- EDUC 4110/G Behavior Support & Classroom Management** 2 cr.  
This course focuses on classroom management within school settings. It includes procedures for group behavior management, strategies for assessing and responding to individual student behavior, using a problem-solving approach for changing behavior, and supporting appropriate behaviors in learning activities and settings.
- EDUC 4200/G Principles of Assessment, Teaching and Learning** 2 cr.  
Prerequisite: Admission to Non-degree (Post-Baccalaureate) Teacher Certification program. This course engages students in discussions and activities dealing with fundamental aspects of educational philosophies, learning styles and theories, an introduction to basics of school organization and governance, classroom management, curriculum development and lesson planning, benchmarks and standards, and principles of assessment. Attention is focused on adapting instruction to meet the needs of diverse learners and the roles of educators in effective schools. Offered for graduate credit only.
- EDUC 4210/G Human Development for Teachers** 3 cr.  
Prerequisite: Admission to Non-Degree Teacher Certification program or Master of Arts in Teaching. This course presents a balance of research findings, theory, and application relevant to the study of child development from infancy through adolescence as the developmental stages are relevant to the classroom teacher. The emphasis throughout the course is on the implication and use of developmental information in providing effective classroom instruction. This course includes site-based performance activities.
- EDUC 4700/G Learner and the Learning Environment** 4 cr.  
Prerequisite: Admission into the Practitioner Teacher Certification Program. This course addresses the key knowledge and skills necessary for new teachers to meet the needs of students in today's classrooms. Offered for graduate credit only.
- EDUC 4701 Practitioner Teacher Internship I** 3 cr.  
Prerequisites: Admission into the Practitioner Teacher Education program. This course provides the candidate with support during the first semester of their initial teaching year. Candidates complete a set of field experiences aligned with demonstrating the Louisiana Components of Effective Teaching. Candidates document their professional development via an electronic professional portfolio using artifacts resulting from the internship. Not offered for graduate credit.
- EDUC 4702 Practitioner Teacher Internship II** 3 cr.  
Prerequisites: Admission into the Practitioner Teacher Education program and EDUC 4701. This course provides the candidate with support during the second semester of their initial teaching year. Candidates complete a set of field experiences aligned with demonstrating the Louisiana Components of Effective Teaching. Candidates document their professional development via an electronic professional portfolio using artifacts resulting from the internship. Not offered for graduate credit.
- EDUC 4810 Internship I - Grades PK-3** 1 cr.  
Prerequisites: Admission into Non-Degree Teacher Certification Program and enrollment in first semester of coursework in the program of study. This course provides the candidate with an initial set of field experiences aligned with targeted performance competencies. Candidates begin the development of an electronic professional portfolio using artifacts resulting from their field work. This course is not available for graduate credit.
- EDUC 4811 Internship II - Grades PK-3** 1 cr.  
Prerequisites: Admission into Non-degree Teacher Certification Program and enrollment in final semester of Level I coursework in the program of study. This course provides the candidate with a set of field experiences aligned with targeted performance competencies in Level I coursework. Candidates continue documenting their professional development via an electronic professional portfolio using artifacts resulting from their field work. This course is not available for graduate credit.
- EDUC 4812 Internship III - Grades PK-3** 1 cr.  
Prerequisites: Admission into Non-degree Teacher Certification Program and enrollment in final semester of Level II coursework in the program of study. This course provides the candidate with a set of field experiences aligned with targeted performance competencies in Level II coursework. Candidates continue documenting their professional development via an electronic professional portfolio using artifacts resulting from their field work. This course is not available for graduate credit.
- EDUC 4813/G Capstone Internship - Grades PK-3** 3 cr. min./6 cr. max.  
Prerequisites: Admission into Non-degree Teacher Certification Program or the Master of Arts in Teaching and completion of all coursework in the program of study. This course provides the candidate with a capstone experience of teaching full time. Candidates complete a set of field experiences aligned with demonstrating the Louisiana Components of Effective Teaching. Candidates document their professional development via an electronic professional portfolio using artifacts resulting from the internship. Candidates pursuing a Master of Arts in Teaching enroll in EDUC 4813/G and earn graduate credit.

- EDUC 4820 Internship I – Grades 1-5** 1 cr.  
Prerequisites: Admissions into Non-degree Teacher Certification Program and enrollment in first semester of coursework in the program of study. This course provides the candidate with an initial set of field experiences aligned with targeted performance competencies. Candidates begin the development of an electronic professional portfolio using artifacts resulting from their field work. This course is not available for graduate credit.
- EDUC 4821 Internship II – Grades 1-5** 1 cr.  
Prerequisites: Admissions into Non-degree Teacher Certification Program and enrollment in final semester of Level I coursework in the program of study. This course provides the candidate with a set of field experiences aligned with targeted performance competencies in Level I coursework. Candidates continue documenting their professional development via an electronic professional portfolio using artifacts resulting from their field work. This course is not available for graduate credit.
- EDUC 4822 Internship III – Grades 1-5** 1 cr.  
Prerequisites: Admissions into Non-degree Teacher Certification Program and enrollment in final semester of Level II coursework in the program of study. This course provides the candidate with a set of field experiences aligned with targeted performance competencies in Level II coursework. Candidates continue documenting their professional development via an electronic professional portfolio using artifacts resulting from their field work. This course is not available for graduate credit.
- EDUC 4823/G Capstone Internship – Grades 1-5** 3 cr. min./6 cr. max.  
Prerequisites: Admission into Non-degree Teacher Certification Program or the Master of Arts in Teaching and completion of all coursework in the program of study. This course provides the candidate with a capstone experience of teaching full time. Candidates complete a set of field experiences aligned with demonstrating the Louisiana Components of Effective Teaching. Candidates document their professional development via an electronic professional portfolio using artifacts resulting from the internship. Candidates pursuing a Master of Arts in Teaching enroll in EDUC 4823/G and earn graduate credit.
- EDUC 4830 Internship I – Grades 4-8** 1 cr.  
Prerequisite: Admission into Non-Degree Teacher Certification program and enrollment in first semester of coursework in the program of study. This course provides the candidate with and initial set of field experiences aligned with targeted performance competencies. Candidates begin the development of an electronic professional portfolio using artifacts resulting from their field work. This course is not available for graduate credit.
- EDUC 4831 Internship II – Grades 4-8** 1 cr.  
Prerequisites: Admissions into Non-degree Teacher Certification Program and enrollment in final semester of Level I coursework in the program of study. This course provides the candidate with a set of field experiences aligned with targeted performance competencies in Level I coursework. Candidates continue documenting their professional development via an electronic professional portfolio using artifacts resulting from their field work. This course is not available for graduate credit.
- EDUC 4832 Internship III – Grades 4-8** 1 cr.  
Prerequisites: Admission into Non-degree Teacher Certification Program and enrollment in final semester of Level II coursework in the program of study. This course provides the candidate with a set of field experiences aligned with targeted performance competencies in Level II coursework. Candidates continue documenting their professional development via an electronic professional portfolio using artifacts resulting from their field work. This course is not available for graduate credit.
- using artifacts resulting from their field work. This course is not available for graduate credit.
- EDUC 4833/G Capstone Internship – Grades 4-8** 3 cr. min./6 cr. max.  
Prerequisites: Admission into Non-degree Teacher Certification Program or the Master of Arts in Teaching and completion of all coursework in the program of study. This course provides the candidate with a capstone experience of teaching full time. Candidates complete a set of field experiences aligned with demonstrating the Louisiana Components of Effective Teaching. Candidates document their professional development via an electronic professional portfolio using artifacts resulting from the internship. Candidates pursuing a Master of Arts in Teaching enroll in EDUC 4833/G and earn graduate credit.
- EDUC 4840 Internship I - Grades 6-12** 1 cr.  
Prerequisite: Admission into Non-Degree Teacher Certification program and enrollment in first semester of coursework in the program of study. This course provides the candidate with and initial set of field experiences aligned with targeted performance competencies. Candidates begin the development of an electronic professional portfolio using artifacts resulting from their field work. This course is not available for graduate credit.
- EDUC 4841 Internship II - Grades 6-12** 1 cr.  
Prerequisites: Admission into Non-degree Teacher Certification Program and enrollment in final semester of Level I coursework in the program of study. This course provides the candidate with a set of field experiences aligned with targeted performance competencies in Level I coursework. Candidates continue documenting their professional development via an electronic professional portfolio using artifacts resulting from their field work. This course is not available for graduate credit.
- EDUC 4842 Internship III - Grades 6-12** 1 cr.  
Prerequisites: Admission into Non-degree Teacher Certification Program and enrollment in final semester of Level II coursework in the program of study. This course provides the candidate with a set of field experiences aligned with targeted performance competencies in Level II coursework. Candidates continue documenting their professional development via an electronic professional portfolio using artifacts resulting from their field work. This course is not available for graduate credit.
- EDUC 4843/G Capstone Internship – Grades 6-12** 3 cr. min./6 cr. max.  
Prerequisites: Admission into Non-degree Teacher Certification Program or the Master of Arts in Teaching and completion of all coursework in the program of study. This course provides the candidate with a capstone experience of teaching full time. Candidates complete a set of field experiences aligned with demonstrating the Louisiana Components of Effective Teaching. Candidates document their professional development via an electronic professional portfolio using artifacts resulting from the internship. Candidates pursuing a Master of Arts in Teaching enroll in EDUC 4843/G and earn graduate credit.
- EDUC 4850 Internship I – Special Education** 1 cr.  
Prerequisite: Admission into Non-Degree Teacher Certification program and enrollment in first semester of coursework in the program of study. This course provides the candidate with and initial set of field experiences aligned with targeted performance competencies. Candidates begin the development of an electronic professional portfolio using artifacts resulting from their field work. This course is not available for graduate credit.

- EDUC 4851 Internship II – Special Education** 1 cr.  
Prerequisites: Admission into Non-degree Teacher Certification Program and enrollment in final semester of Level I coursework in the program of study. This course provides the candidate with a set of field experiences aligned with targeted performance competencies in Level I coursework. Candidates continue documenting their professional development via an electronic professional portfolio using artifacts resulting from their field work. This course is not available for graduate credit.
- EDUC 4852 Internship III – Special Education** 1 cr.  
Prerequisites: Admission into Non-degree Teacher Certification Program and enrollment in final semester of Level II coursework in the program of study. This course provides the candidate with a set of field experiences aligned with targeted performance competencies in Level II coursework. Candidates continue documenting their professional development via an electronic professional portfolio using artifacts resulting from their field work. This course is not available for graduate credit.
- EDUC 4853 Capstone Internship – Special Education** 3 cr.  
Prerequisites: Admission into Non-degree Teacher Certification Program and completion of all coursework in the program of study. This course provides the candidate with a capstone experience of full time teaching. Candidates complete a set of field experiences aligned with demonstrating the Louisiana Components of Effective Teaching. Candidates document their professional development via an electronic professional portfolio using artifacts resulting from the internship. This course is not available for graduate credit.
- EDUC 4863/G Capstone Internship – General Special Education Mild/Moderate 1-5** 6 cr.  
Prerequisites: The final semester for students in the Master of Arts in Teaching. This internship provides the candidate who is currently employed in the intended area of certification with an opportunity to apply competencies essential for effective teaching and to assume the role of both a general and a special educator within a school program. The goal of the Capstone Internship is to have candidates apply the theory-practice interaction model while implementing the principles, methods, knowledge, and materials acquired from previous coursework.
- EDUC 4873/G Capstone Internship – General Special Education Mild/Moderate 4-8** 6 cr.  
Prerequisites: The final semester for students in the Master of Arts in Teaching. This internship provides the candidate who is currently employed in the intended area of certification with an opportunity to apply competencies essential for effective teaching and to assume the role of both a general and a special educator within a school program. The goal of the Capstone Internship is to have candidates apply the theory-practice interaction model while implementing the principles, methods, knowledge, and materials acquired from previous coursework.
- EDUC 4883/G Capstone Internship – General Special Education Mild/Moderate 6-12** 6 cr.  
Prerequisites: The final semester for students in the Master of Arts in Teaching. This internship provides the candidate who is currently employed in the intended area of certification with an opportunity to apply competencies essential for effective teaching and to assume the role of both a general and a special educator within a school program. The goal of the Capstone Internship is to have candidates apply the theory-practice interaction model while implementing the principles, methods, knowledge, and materials acquired from previous coursework.
- EDUC 4901 Extended Practice Opportunity** 1 cr.  
Prerequisites: Recommendation for enrollment following candidate performance review. This course provides the teacher candidate with guided practice and field support to address targeted performance competencies aligned with a certification area. Candidates document their professional development via an electronic professional portfolio using artifacts resulting from their field work. This course is not available for graduate credit.
- EDUC 4903 Extended Practice Opportunity** 3 cr.  
Prerequisites: Recommendation for enrollment following candidate performance review. This course provides the teacher candidate with guided practice and field support to address targeted performance competencies aligned with a certification area. Candidates document their professional development via an electronic professional portfolio using artifacts resulting from their field work. This course is not available for graduate credit.
- EDUC 4910/G Student Teaching Grades 1-5** 3 cr. min./9 cr. max.  
Prerequisites: Admission into Student Teaching. This course provides the candidate with an opportunity to apply competencies essential for effective teaching and to assume the role of an educator within a school program. The goal of student teaching is to have candidates operationalize the theory-practice interaction model while implementing, over an extended period of time, the principles, methods, knowledge, and materials acquired in previous coursework. Candidates in the undergraduate program must also concurrently enroll in EDUC 4000, Meeting the Needs of All Learners (3 credit hours). Candidates enrolled in 4910/G earn graduate credit.
- EDUC 4920 Student Teaching Grades 6-12** 3 cr. min./9 cr. max.  
Prerequisites: Admission into Student Teaching. This course provides the candidate with an opportunity to apply competencies essential for effective teaching and to assume the role of an educator within a school program. The goal of student teaching is to have candidates operationalize the theory-practice interaction model while implementing, over an extended period of time, the principles, methods, knowledge, and materials acquired in previous coursework. Candidates in the undergraduate program must also concurrently enroll in EDUC 4000, Meeting the Needs of All Learners (3 credit hours). Candidates enrolled in 4920/G earn graduate credit.
- EDUC 4920/G Student Teaching Grades 6-12** 3 cr. min./9 cr. max.  
Prerequisites: Admission into Student Teaching. This course provides the candidate with an opportunity to apply competencies essential for effective teaching and to assume the role of an educator within a school program. The goal of student teaching is to have candidates operationalize the theory-practice interaction model while implementing, over an extended period of time, the principles, methods, knowledge, and materials acquired in previous coursework. Candidates in the undergraduate program must also concurrently enroll in EDUC 4000, Meeting the Needs of All Learners (3 credit hours). Candidates enrolled in 4920/G earn graduate credit.
- EDUC 4930 Student Teaching – Grades K-12** 3 cr. min./9 cr. max.  
Prerequisites: Acceptance into Tier IV of the Teacher Education Program and concurrent enrollment in EDUC 4000 or acceptance into Level 3 of the non-degree (Post-Baccalaureate) Teacher Education Program. This course is designed to provide the candidate with an opportunity to apply competencies essential for effective teaching

and to assume the role of an educator within a total school program. The goal of student teaching is to have candidates operationalize the theory-practice interaction model while implementing, over an extended period of time, the principles, methods, and knowledge and materials acquired in previous coursework. Candidates seeking certification for grades K-12 enroll in this course. Undergraduate candidates also concurrently enroll in EDUC 4000, Meeting the Needs of All Learners III (3 credit hours). The number of credit hours taken depends on the certification plan pursued. This course may not be taken for graduate credit.

**EDUC 4940/G Student Teaching**  
**Grades 4-8** 3 cr. min./9 cr. max.  
Prerequisites: Admission into Student Teaching. This course provides the candidate with an opportunity to apply competencies essential for effective teaching and to assume the role of an educator within a school program. The goal of student teaching is to have candidates operationalize the theory-practice interaction model. Candidates seeking certification for grades 4-8 enroll in this course. Candidates in the undergraduate program must also concurrently enroll in EDUC 4000.

**EDUC 4950/G Student Teaching**  
**Grades PK-3** 3 cr. min./9 cr. max.  
Prerequisites: Admission into student teaching. This course provides the candidate with an opportunity to apply competencies essential for effective teaching and to assume the role of an educator within a school program. The goal of student teaching is to have candidates operationalize the theory-practice interaction model. Candidates in the undergraduate program must also concurrently enroll in EDUC 4000.

**EDUC 4960 Student Teaching:**  
**Special Education** 3 cr. min./9 cr. max.  
Prerequisites: Acceptance into Tier IV of the Teacher Education Program and successful completion of EDUC 4910, EDUC 4920, EDUC 4940, or EDUC 4950. This course is designed to provide the candidate with an opportunity to apply competencies essential for effective teaching and to assume the role of an educator within a total school program. The goal of student teaching is to have candidates operationalize the theory-practice interaction model while implementing, over an extended period of time, the principles, methods, and knowledge and materials acquired in previous coursework. Candidates seeking certification in Special Education enroll in this course. This course is not offered for graduate credit.

**EDUC 4970/G Student Teaching – General Special**  
**Education Mild/Moderate 1-5** 9 cr.  
Prerequisites: Acceptance into Tier IV of the Teacher Education Program and concurrent enrollment in EDUC 4000 or the final semester for students in the Master of Arts in Teaching program. This course provides the candidate with an opportunity to assume the role of both a general and a special educator within a total school program. Candidates will apply the theory-practice interaction model while implementing the principles, methods, knowledge, and materials acquired from previous coursework.

**EDUC 4980/G Student Teaching – General Special**  
**Education Mild/Moderate 4-8** 9 cr.  
Prerequisites: The final semester for students in the Master of Arts in Teaching. This course provides the candidate who is not currently employed in their declared area of certification with an opportunity to assume the role of both a general and a special educator within a total school program. Candidates will apply the theory-practice interaction model .

**EDUC 4990/G Student Teaching – General Special**  
**Education Mild/Moderate 6-12** 9 cr.  
Prerequisites: The final semester for students in the Master of Arts in Teaching. This course provides the candidate who is not currently employed in their declared area of certification with an opportunity to assume the role of both a general and a special educator within a total school program. Candidates will apply the theory-practice interaction model.

**EDUC 6001 Master of Arts in Teaching**  
**Performance Assessment** 0 cr.  
Prerequisite: This course must be taken by students in the last semester of coursework prior to Student Teaching or Capstone Internship. This is a required course that supports candidates in completing the performance assessment for their certification area. Students will spend sufficient time in school settings to complete requirements and produce an electronic portfolio that provides evidence of meeting Specialty Professional Area (SPA), State, and Unit Standards.

## Earth and Environmental Sciences

**EES 1000 Dynamic Earth** 3 cr.  
Prerequisites: eligibility to enroll in ENGL 1157 or credit in English at the college level. A study of the structure and properties of materials composing the earth and processes which form and alter the crust including erosion igneous activity mountain building glaciation earthquakes and oceans. Credit in EES 1000 and/or 1001 and EES 1008 will not be allowed.

**EES 1001 Dynamic Earth Lab** 1 cr.  
Prerequisite: credit or registration in EES 1000. Offered each semester. An introduction to working with geological materials. Distinction of rocks on the basis of physical properties and determination of how those properties can be used to predict behavior of various materials. Students are introduced to principles of mapping and geological laboratory and field observations. The course meets for three hours each week. Credit in both EES 1001 and EES 1008 will not be allowed.

**EES 1002 Introduction to Environmental Science** 3 cr.  
Prerequisite: eligibility to enroll in ENGL 1157. A survey of environmental science and policy issues, including ecology, engineering, geology, geography, law, economics, philosophy, and sociology.

**EES 1003 Introduction to Environmental**  
**Sciences Laboratory** 1 cr.  
Prerequisites: Eligibility to enroll in ENGL 1157. Student must be concurrently enrolled in EES 1002 or have already completed EES 1002. The purpose of this course is to expose undergraduate students to research topics in the environmental sciences with an emphasis on local Louisiana issues. Students are assessed on the basis of a semester-long independent research project that includes the formulation of a research plan, the collection of data, analysis of these data, and a final oral presentation to the class. Students will be assessed a laboratory fee for enrollment in this course.

**EES 1004 Earth and Environment through Time** 3 cr.  
Offered each semester. Prerequisite: EES 1000. Evolutionary history of the earth including physical changes and an introduction to the record of life through time.

**EES 1005 Earth and Environment through Time Lab** 1 cr.  
Offered each semester. Prerequisite: EES 1001; concurrent enrollment in EES 1004 is recommended. A survey of the rocks maps and fossils used to unravel the history of earth and life. The course meets for three hours each week.

- EES 1006 Dinosaurs** 3 cr.  
Prerequisite: eligibility for ENGL 1157. A lecture survey of dinosaurs and other extinct reptiles the theories about their life habits and evolution. Three hours of lecture a week.
- EES 1007 Geology of the National Parks** 3 cr.  
A study of geological processes which have shaped the landscapes of selected American National Parks and Monuments.
- EES 1008 Geology of New Orleans and Louisiana** 4 cr.  
Prerequisites: eligibility to enroll in ENGL 1157 or credit in English at the college level. A study of the influence of geological materials and processes on the founding development and future of New Orleans and environs. Lecture and laboratory are integrated. Credit for both EES 1000 and/or EES 1001 and EES 1008 will not be allowed. EES 1008 may be used along with EES 1004 and 1005 to fulfill the 8-credit hour science general degree requirement.
- EES 2000 Methods in Earth and Environmental Sciences** 3 cr.  
Prerequisites: EES 1000, 1001, 1002, 1003, 1004, 1005 or consent of instructor in lieu of one of the identified lecture and laboratory sequences. This course is designed to introduce students to the approaches and instrumentation used in the field by earth and environmental scientists to conduct their research. Course emphasizes the interpretation of maps and aerial photographs, the construction of geologic cross-sections, the measurement of geologic sections, the use of position locating systems and field instruments such as compasses, seismic systems and side-scan sonar.
- EES 2050 Surficial Processes** 3 cr.  
Prerequisites: EES 2010, MATH 1112. Study of earth surface processes involved in sediment deposition and landform development. Process mechanics and environmental response to climatic change and tectonic events are emphasized. Two hours of lecture and three hours of laboratory.
- EES 2051 Geomorphology** 3 cr.  
Focuses on the processes operating at the surface of the earth that result in the degradation of existing rock masses and the movement of material across the surface of the earth to other locations, and the landforms resulting from these processes.
- EES 2096 Special Topics in Geology** 1 cr. min./3 cr. max.  
Prerequisite: consent of department. A lecture lecture-laboratory or seminar format will be used to discuss special topics in geology. The course content will vary from semester to semester.
- EES 2097 Independent Studies** 1 cr. min./3 cr. max.  
Offered each semester. Prerequisite: consent of department. Independent research projects or directed readings designed to meet the needs and interests of individual students. Regular conferences between students and instructor are required. May be repeated for a total of three credits. Section number will correspond with credit to be earned.
- EES 2510 Environmental Science Policy** 3 cr.  
Prerequisite: EES 1002. An introduction to the role of science in environmental policy making and policy analysis. Emphasis will be on understanding basic policy mechanisms, major policy actions related to environmental and resource issues, and limits of science in policy making. The approach of the course will be to focus on current environmental problems and case histories. Through hands-on analysis students will develop an appreciation for the complex causes of environmental problems and how viable solutions can be formulated.
- EES 2700 Earth Minerals** 3 cr.  
Prerequisites: EES 1000, 1001, CHEM 1017, MATH 1126 or consent of the department. A study of crystal structure, crystal chemistry, mineral classification, optical mineralogy, and mineral formation. Two hours of lecture and three hours of laboratory.
- EES 2740 Principles of Paleontology** 3 cr.  
Fall semester. Prerequisites: EES 1004 and 1005, and credit or enrollment in BIOS 1071 and 1073. Study of ancient life as a geological and biological science. Lab will concentrate on invertebrates will also cover vertebrates and plants. Two hours of lecture three hours of laboratory and required field trip.
- EES 3000 Ecosystem Analyses** 3 cr.  
Prerequisites: EES 1000, 1001, 1002, 1003; BIOS 1071, 1073; MATH 1126. Undergraduate course covering basic techniques in the collection and analysis of environmental data and the management of ecosystem databases. Lectures on managing ecological data and communicating results to natural resource managers. Students will be instructed in the use of software products for storing and analyzing environmental data and will be given real data sets to conduct independent research projects.
- EES 3091 Independent Studies in Earth and Environmental Science** 1 cr. min./3 cr. max.  
Prerequisite: Consent of coordinator. Directed readings, research, or applications designed to meet the needs and interests of individual students. Conferences between the student and a supervising instructor are required. May be repeated with permission.
- EES 3096 Special Topics – Earth and Environmental Science** 1 cr. min./3 cr. max.  
Prerequisite: Consent of coordinator. A lecture, field, and/or seminar format will be used to present special topics in the field of environmental science and policy. Content will vary from semester to semester. May be repeated with permission.
- EES 3100 Analysis of Earth Structure** 3 cr.  
Prerequisites: EES 2010 and 2011, MATH 1112; concurrent enrollment in EES 3110. Description and geometric analysis of earth structures (faults folds and structural fabrics). Overview of worldwide observations of typical earth structures and structural association as well as theories for the origin of geologic structures. Includes practical exercises in construction of geologic maps and cross-sections graphical as well as trigometric solution of geometric problems and analysis of structural symmetry. One hour of lecture and 3 hours of laboratory per week.
- EES 3120 Introduction to Coastal Restoration** 3 cr.  
Introduces students to the various methods used in coastal restoration; structured according to the environmental setting.
- EES 3400 Introduction to Petroleum Geology** 3 cr.  
Prerequisites: EES 2700, 3100. Introduces students to the geologic principles required in the exploration and recovery of hydrocarbons from subsurface reservoirs. Students will gain an understanding of where hydrocarbons are typically trapped in the subsurface, how they form and migrate, and the methods required to develop a hydrocarbon play that is economically viable.
- EES 3510 Environmental and Natural Resource Law** 3 cr.  
Prerequisite: EES 2510. An overview of the environmental resource laws that affect the development and application of environmental policies.
- EES 3520 Environmental Engineering for Non-Engineers** 3 cr.  
Prerequisite: CHEM 1018. The application of environmental engineering principles to the prevention or mitigation of environmental problems are discussed. Topics will include water quality, water purification processes in natural systems, air quality, solid wastes, and hazardous wastes. This course may not be used to fulfill degree requirements in the College of Engineering.

- EES 3700 Geological Time** 3 cr.  
Prerequisite: EES 1000, 1001. This course will survey relative and absolute geological time focusing upon geological history biostratigraphy physical stratigraphy and geochronology.
- EES 3730 Introductory Geochemistry** 3 cr.  
Prerequisites: CHEM 1018 or 1011 and consent of department. Principles of chemistry applied to the study of geological materials and processes. Emphasis will be on isotope geochemistry thermodynamics crystal chemistry and petrogenesis.
- EES 3760 Introduction to Oceanography** 3 cr.  
Prerequisites: One of the following: EES 1000; BIOS 1051 or 1073; CHEM 1010, 1012, or 1017; or PHYS 1031 or 1061. Principles of physical and chemical properties of seawater ocean and atmospheric circulation; ocean influence on climate waves tides biological process and life in the sea; sedimentation processes and paleoceanography and global climate change.
- EES 3991 Undergraduate Research** 1 cr. min./3 cr. max.  
Offered each semester. Prerequisite: consent of department. Independent research projects designed to meet the needs and interests of individual students. Regular conferences between student and instructor are required. The combination of credits earned in EES 3991 and 2097 can not exceed six credits. Section number will correspond with credit to be earned.
- EES 4000/G Statistical Methods in Earth and Environmental Sciences** 3 cr.  
Prerequisites: MATH 2112 and CSCI 1201 or equivalent experience. Analysis of quantitative geological data emphasizing computer-based procedures.
- EES 4005/G Geologic Processes for Teachers I** 3 cr.  
Prerequisites: EES 1004 and 1005 or consent of department. A course designed to provide science teachers with an understanding of earth materials and the processes that build the earth's crust including minerals rocks volcanism earthquake activity and plate tectonics. Special attention is given to classroom/laboratory presentation.
- EES 4006/G Earth History for Teachers** 3 cr.  
Prerequisites: EES 1004 and 1005 or consent of department. A course designed to provide teachers with the knowledge necessary to interpret earth history including the study of fossils determining age relationships interpretation of geologic maps and construction of paleoenvironmental maps. Special attention is given to classroom/laboratory presentation. Two hours of lecture and two hours of laboratory.
- EES 4090 Senior Thesis** 1 cr. min./6 cr. max.  
Prerequisites: Senior status and written approval of the department and the supervising professor. Supervised research on some aspect of the geological sciences. Project must be completed as a written report and the final copy approved by adviser before the second semester's credit can be received. May be repeated for a total of six credits. Section number will correspond with credit to be earned.
- EES 4096/G Special Topics** 1 cr. min./3 cr. max.  
Prerequisite: consent of department. A lecture lecture-laboratory or seminar format will be used to discuss special topics in geology. The course content will vary from semester to semester. Section number will correspond with credit to be earned.
- EES 4098 Senior Honors Thesis** 1 cr. min./6 cr. max.  
Prerequisites: written consent of department professor(s) concerned and director of Honors Program. Approval of a written report and an oral defense of the thesis is required. Section number will correspond with credit to be earned. Must be repeated for a total of six credits.
- EES 4099 Senior Seminar in Earth and Environmental Sciences** 2 cr.  
Prerequisites: EES 3100, 3700, 2050. In this course students will apply a broad spectrum of studies to the solution of problems arising in geology. This course will emphasize physical processes geologic time and earth materials. Students must demonstrate a firm comprehension of those topics and be able to apply them to the solution of geologic problems in order to earn a passing grade in the course. Subject matter will vary. Successful completion of this course satisfies the general degree requirements for oral competency.
- EES 4100/G Approaches to Environmental Problems** 3 cr.  
Prerequisite: EES 3510. The development of plans to remediate environment problems taking into consideration the scientific, legal, economic and social aspects.
- EES 4110/G Introduction to Geophysics** 3 cr.  
Spring semester. Prerequisites: EES 3100, and PHYS 1063. A study of the fundamental methods of geophysics. Emphasis is placed on seismic gravity and magnetic methods and their use in geophysical exploration. Two hours of lecture and three hours of laboratory.
- EES 4120/G Gravity and Magnetism** 3 cr.  
(EES 4120 and PHYS 4507 are cross-listed) Prerequisites: EES 4110, PHYS 3301 or 4501, MATH 2221, or consent of department. Fundamentals of scalar potentials and analysis of vector fields as applied to geophysical problems in gravity and magnetism. Analytic properties of the earth's gravitational and magnetic fields in space and time. Modeling and interpretation of gravity and magnetic anomalies.
- EES 4130/G Exploration Seismology** 3 cr.  
Prerequisites: MATH 2109 or 2112; PHYS 1061; EES 3110, 3700, and 2050. Application of physical principles to naturally deformed rocks and overview of modern structural geology. Quantitative applications to solve geologic problems practical exercises in rock mechanics determination of finite strain advanced cross-section construction techniques and methods of kinematic analysis. Three hours of lecture per week.
- EES 4135/G Introduction to Earthquake Seismology** 3 cr.  
Prerequisites: EES 3100 and MATH 2221 or consent of department. A study of the effects of earthquakes on the environment efforts to predict earthquakes and the use of earthquake seismograms to map the interior of the Earth. Two hours of lecture and three hours of laboratory.
- EES 4140/G Geomodeling** 3 cr.  
Prerequisites: CSCI 1201 (C or FORTRAN programming course) and MATH 2109 or consent of department. This course teaches the application of Numerical Methods to the development of computer simulations of geophysical methods. The students will develop individual projects that emphasize their research interests while learning how to write the appropriate computer codes in either C or FORTRAN.
- EES 4145/G Earth Physics** 3 cr.  
Prerequisites: PHYS 1063 and MATH 2112. A study of the physics of the earth in relation to the earth's origin evolution and existing structure. To include such topics as earthquake seismology isostasy radioactive dating heat flow and the earth's gravity and magnetic field.
- EES 4150/G Geophysical Field Methods** 2 cr.  
Prerequisite: EES 3110, 3700, 2050, and EES 4110 or permission of department. Introduction to basic acquisition of geophysical data in the field. Collection processing and interpretation of gravity and magnetic data as well as seismic reflection and refraction data. A

fee will be assessed for transportation materials insurance room and board. The course will include fourteen days of field work.

**EES 4152/G Applied Seismic Data Acquisition and Processing**

3 cr.

(PHYS 4381 and EES 4152 are cross-listed) Prerequisites: PHYS 4205, EES 4110 and MATH 2221 or consent of department. Basic acoustics and ray tracing; seismic data acquisition; CDP; noise analyses and arrays; physics of acoustic sources, measuring and recording instruments; demultiplexing; NMO and velocity analysis; statics; and introduction to deconvolution, filtering, and migration. Use of fundamental seismic data processing computer programs, graphics, and displays of seismic data; seismic data processing of field data. Two hours of lecture and two hours of computer laboratory per week.

**EES 4160/G Seismic Stratigraphy**

2 cr.

Prerequisite: EES 4110 or consent of department. Interpretation of stratigraphy from seismic records. Analysis of unconformities environments of deposition and local and world-wide sea level curves. Two hours of lecture/discussion.

**EES 4161/G Gulf Coast Geology**

3 cr.

Fall semester. Prerequisites: EES 3110, 3700, 2050, or consent of department. Geology of the Gulf Coastal Plain and Gulf Basin including physiography stratigraphy structure and economic geology.

**EES 4165/G Geophysical Exploration and Interpretation**

3 cr.

Prerequisites: EES 3100 and PHYS 1062 or consent of department. A study of the fundamental methods of geophysical exploration and interpretation. To include geophysical principles of gravity magnetics and seismology in order to make better geological interpretation of geophysical data.

**EES 4200/G Geomorphology**

3 cr.

(GEOG 4822, GEOG 4822G, and EES 4200 are cross-listed) A study of land forms and the processes that have shaped the natural landscape. A study of the physical geography and geology of the United States through maps and aerial photographs is undertaken in the laboratory. Two hours of lecture and three hours of laboratory.

**EES 4300/G Environmental Field Methods**

2 cr.

Prerequisites: A study of the fundamentals of environmental field methods. The course will include 14 days in the field. Example studies include wetland delineation soil sampling water sampling landslide identification and earthquake hazard assessment. A fee may be assessed to cover transportation and supplies.

**EES 4550/G Coastal Geomorphology**

3 cr.

Prerequisite: Consent of department The study of the geomorphology of land forms and the processes that shape them. This course surveys the coasts of the world and the challenges they present to our society. Topics range from tectonic classification of coasts to sea level history, coastal processes, coastal land forms, and environmental coastal issues. A fee will be assessed to cover transportation and supplies.

**EES 4560 Environmental Geology of Coastal Louisiana**

3 cr.

Prerequisite: consent of department. This course investigates the Holocene evolution of south Louisiana and the environmental issues found in this coastal zone. Topics addressed include the modern development of the Mississippi River delta and chenier plains, flood and diversion control, coastal land loss, hurricanes, environmental quality, and coastal restoration. A fee may be assessed to cover transportation and supplies.

**EES 4700/G Advanced Field Geology**

2 cr.

Prerequisite: EES 3110, 3700, 2050 or consent of department. Emphasis on determination of structure in complexly deformed

terraces. Two weeks of field work including exercises in complexly faulted and folded rocks as well as analysis of structure in ductilely deformed rocks. Recommended for all undergraduates planning graduate study in geology and for all graduate students who need a refresher course in advanced field techniques. A fee will be assessed for transportation materials insurance room and board. Course taught immediately after spring semester generally in southern California.

**EES 4711/G Introductory X-Ray Crystallography**

2 cr.

Fall semester. Prerequisites: EES 2700, MATH 2112, CHEM 1018, and consent of department. Introduction to the theory and techniques of X-ray analysis of crystalline materials. One hour of lecture and three hours of laboratory.

**EES 4720/G Global Tectonics**

3 cr.

Prerequisites: EES 3110, 3700, and 2050; MATH 2112 or 2109; EES 4110 or 4145 recommended; or consent of the department. Overview of plate tectonic principles with specific geologic applications. Geophysical characteristics of plate margins descriptions of plate motions and plate reconstructions. Geological characteristics of plate margins tectonic analysis of ancient plate margins and theories on the plate tectonic driving mechanism. Two hours of lecture and three hours of laboratory.

**EES 4730/G Environmental Geochemistry**

3 cr.

Prerequisites: CHEM 1018 or 1011 and CHEM 2217 or consent of department. Chemical reactivities of common inorganic and organic pollutants are presented for different natural environments. The chemistry of methods used to neutralize and/or remove these pollutants from the environment are discussed. Three hours of lecture.

**EES 4735/G Hydrogeology**

3 cr.

Prerequisites: EES 2050, MATH 2109 or 2112, or consent of department. A study of the fundamentals of ground water: geologic occurrence exploration and physical properties. Focuses on the subsurface distribution and movement of water in geologic materials. Three hours lecture per week.

**EES 4750/G Principles of Stratigraphy**

3 cr.

Prerequisites: EES 2010, 2011, 3700. An introduction to the principles of stratigraphic analysis and correlation of sedimentary rocks. Provides an overview of depositional systems and stratigraphic successions in different tectonic domains. Includes practical exercises in the interpretation of depositional systems, construction of stratigraphic cross sections, construction of isopach and structural contour maps and interpretation of seismic reflection profiles. Two hours of lecture and two hours of laboratory per week with oral and written assignments. One afternoon field trip and a week-long field trip to the central/southern Appalachians are required. A field trip fee will be assessed to cover transportation and other field trip related costs.

**EES 4770/G Subsurface Geology Methods**

3 cr.

Fall semester. Prerequisites: EES 3100, 3700, 2050, and consent of department. Subsurface methods used in the study of the origin migration and accumulation of petroleum. Two hours of lecture and three hours of laboratory.

**EES 4800/G Advanced Stratigraphy**

3 cr.

Prerequisite: EES 4750 or consent of department. An introduction to advanced theoretical and applied methods used to examine, decipher, and utilize the stratigraphic record to determine depositional basin history and the distribution of natural resources. Subjects to be addressed include: the record of time strata, tectonics and sedimentation, sequence stratigraphy, stratigraphic cyclicity, biostratigraphy, relative and eustatic sea-level change and other mechanisms that drive the evolution of depositional systems.

- EES 4840/G Structural Geology** 3 cr.  
Prerequisites: MATH 2109 or 2112; PHYS 1061; EES 3110, 3700, and 2050. Application of physical principles to naturally deformed rocks and overview of modern structural geology. Quantitative applications to solve geologic problems practical exercises in rock mechanics determination of finite strain advanced cross-section construction techniques and methods of kinematic analysis. Three hours of lecture per week.
- EES 4900/G Coastal Processes** 3 cr.  
Prerequisites: MATH 1126 or equivalent, or approval of the instructor. This course focuses on the physical processes operating in the coastal marine environment. Key elements include wave transformation processes, coastal level fluctuations, and coastal morphodynamics. The course will also emphasize on presenting modeling tools available for the study of such environments. Graduate students in this course will be responsible to complete additional work during the regular semester as well as a final project for the class.
- EES 4949/G Natural Resource Management** 3 cr.  
Prerequisites: EES 1000, 1001, 1002, 1003; BIOS 1073, 1071; MATH 2107; or consent of department. This interdisciplinary course will instruct junior and senior level undergraduate students in the importance of understanding the effectiveness of using ecological policies for addressing global problems with natural resource management. With and emphasis on Louisiana's own ecosystems, students will survey numerous examples of how ecologically-based methods have repeatedly been used to restore and improve both aquatic and terrestrial natural resources for commercial and recreational use.
- EES 6005 Geologic Processes for Teachers II** 3 cr.  
Prerequisites: EES 4005 and 4006 or consent of the department. A course designed to provide science teachers with an understanding of landscape development and the processes that wear down the earth's surface including the work of water ice wind and waves. Special attention is given to classroom/laboratory presentation. Two hours of lecture and two hours of laboratory.
- EES 6006 Interpreting Earth History** 3 cr.  
Prerequisites: EES 4005 and 4006 or consent of department. Methods and materials in interpreting earth history. Historical development of the earth and its inhabitants. Laboratory techniques group projects and independent studies. Two hours of lecture and two hours of laboratory.
- EES 6090 Graduate Seminar** 1 cr.  
Offered each semester. Students and faculty will discuss their research work on timely topics in geology. Required each semester for graduate students in geology. One credit each semester to a maximum of three credits. One hour of lecture-discussion.
- EES 6096 Special Topics** 1 cr. min./3 cr. max.  
Prerequisite: consent of department. A lecture lecture- laboratory or seminar format will be used to discuss special topics in geophysics. The course content will vary from semester to semester. The section number will correspond to the number of credit hours earned.
- EES 6097 Independent Study** 1 cr. min./3 cr. max.  
Offered each semester. Prerequisite: consent of department. Independent research projects that are not part of a graduate thesis or directed readings designed to meet the needs and interests of individual students. Regular conferences between the student and instructor are required. May be repeated for a total of three credits.
- EES 6265 Surface Process and Environment Dynamics** 3 cr.  
Prerequisite: EES 3265 or consent of department. A study of present-day continental shelf-coastal and oceanic environments emphasizing how understanding sedimentary processes can be used in developing lithofacies models. Three hours of lecture.
- EES 6275 Paleooceanography** 3 cr.  
Prerequisite: consent of the department. The study of changes in the ocean-atmosphere system as preserved in marine sediments. The record of changing global climate and environmental change on geologic time scales. Late Genozoic glaciation, catastrophic global environmental events, and long-term evolution of climate change patterns.
- EES 6337 Advanced Carbonate Petrology** 3 cr.  
Prerequisite: Consent of department. Analysis and interpretation of carbonate lithofacies and diagenetic fabrics. Two hours of lecture and three hours of laboratory.
- EES 6346 Clastic Diagenesis** 3 cr.  
Prerequisites: Consent of department. Origin and interpretation of diagenetic features in sedimentary rocks. Effects of diagenesis on porosity, permeability, and cementation. Chemical conditions favoring development of secondary porosity and fluid flow. Relation between mineral transformations and diagenetic grade. Two hours of lecture and three hours of laboratory.
- EES 6658 Low-Temperature Geochemistry** 3 cr.  
Spring semester. Prerequisites: EES 4730 and CSCI 1060 or consent of department. Comprehensive study of chemical processes in geologic systems at temperatures and pressures from earth surface conditions through diagenesis (200EC and 1 kilobar). Emphasis will be placed on the use of equilibrium thermodynamics chemical kinetics diffusion and advection to explain reservoir diagenesis.
- EES 6710 Environmental Statistics** 3 cr.  
Prerequisites: MATH 2112 or consent of department. Applications of geostatistics to environmental problems. Extensive use of the U.S. Environmental Protection Agency's GEO-EAS and GEOPACK software for variogram analysis and kriging. Three hours lecture per week.
- EES 6760 Coastal Restoration & Management** 3 cr.  
Prerequisite: consent of the department. Coastal problems and appropriate mitigation approaches on barrier shorelines and beaches, deltas, and estuaries. Management aspects include project implementation and a background to regulatory frameworks for coastal restoration decision-making.
- EES 6762 Aquatic Sciences** 3 cr.  
Prerequisites: Approval of instructor and graduate status. This interdisciplinary seminar will examine interactions and connectivity in the aquatic environment continuum. Environments covered in this course will include: inland groundwater hydrology, freshwater streams and rivers, lakes and reservoirs, aquatic-terrestrial floodplain habitats, oligohaline estuaries, urban and impacted waters, coastal wetlands, barrier island habitats, in-shore and offshore artificial reefs, and pelagic marine habitats. Students will investigate how all of these environments and connected to each other and how these interactions are essential for the functioning of these ecosystems.
- EES 6770 Basin Analysis** 3 cr.  
Prerequisites: consent of instructor and graduate status. The course presents theories of basin formation in various types of geotectonic settings, basin infill dynamics, subsidence history and consequences for reservoir and source rock development and the petroleum system. Subjects to be discussed include physical state of lithosphere, mechanisms of sedimentary basin formation by stretching, strike-slip, flexure and compression, effects of mantle dynamics, basin infill mechanisms and depositional systems, basin stratigraphy, subsidence and thermal history, changes of reservoir

and petrophysical parameters during burial and tectonic processes, and application to the petroleum system, leading towards the play concept.

**EES 6810 Geophysical Data Processing** 3 cr.  
Prerequisites: EES 4130, CSCI 1060, MATH 2221, and PHYS 4205 or MATH 4213 or consent of department. Transforms one-sided functions spectral factorization resolution matrices and multi-channel time series data modeling by least squares waveform applications of least squares layers revealed by scattered wave filtering and mathematical physics in stratified media.

**EES 6840 Reflection Seismology** 3 cr.  
Prerequisites: EES 4130, CSCI 1060, MATH 2221, and PHYS 4205 or MATH 4213 or consent of department. Seismic velocity synthetic seismogram filtering convolution and deconvolution of seismic data; migration for the delineation of geological structures; and geophysical Inverse Theory for determining lithology.

**EES 6888 Advanced Structural Geology** 3 cr.  
Prerequisites: EES 2288 and MATH 2109 or 2112 (recommended MATH 2511). Application of continuum mechanics to analysis of geologic structures. Emphasis is on quantitative assessment of structural problems but specific topics covered will depend upon the class' background and interests. Three lectures per week.

**EES 7000 Thesis Research** 1 cr. min./9 cr. max.  
Offered each semester. By arrangement with the graduate adviser. Three hours of laboratory work per credit hour. Section number will correspond with credit to be earned. To be repeated for credit until thesis is accepted.

**EES 7040 Examination or Thesis Only** 0 cr.  
No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

## Engineering and Applied Sciences

**ENAS 7025 Engineering and Applied Science Research Seminar** 1 cr.  
Students and faculty will present and discuss research activities and/or current topics in the field. Invited guest speakers will also participate. May be offered jointly by two or more departments in the engineering and applied science doctoral program or by any one of the participating departments in the College of Engineering and the College of Sciences. May not be applied for credit toward the Ph.D. program.

**ENAS 7040 Examination Or Thesis Only** 0 cr.  
Open to students in a thesis program who have only (other than applied for degree) the final typing and acceptance by the Graduate School of their thesis or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduate requirements.

**ENAS 7050 Dissertation Research** 1 cr. min./9 cr. max.  
Offered each semester. Section number will correspond with credit to be earned. To be repeated for credit until dissertation is accepted.

## Civil Engineering

**ENCE 2301 Civil Engineering Computing and Graphics** 4 cr.  
Prerequisite: MATH 1126 and credit or registration in ENCE 2310. Introduction to Fortran programming and spreadsheet design for civil engineering applications. Fundamental graphical concepts and related material as they apply to the technologies utilized

in the field of civil engineering. Two one-hour lectures and two three-hour labs.

**ENCE 2310 Elementary Surveying Measurements** 3 cr.  
Prerequisites: MATH 1126 and credit or registration in ENCE 2301. Practical surveying measurement techniques are presented with suitable office computation methods for boundary, construction, and topographic surveys. State coordinate systems are introduced with proper use of geodetic datums (NAD 1927 to NAD 1983). Two hours of lecture and three hours of laboratory.

**ENCE 2311 Mechanics of Materials Laboratory** 1 cr.  
Offered each semester. Prerequisite: credit or registration in ENCE 2351. Selected experiments in mechanics of materials: mechanical extensometers, electric strain gauges, photoelasticity, stress concentration, surface hardness. Three hours of laboratory.

**ENCE 2312 Advanced Surveying** 3 cr.  
Prerequisite: ENCE 2310 or consent of department. Elementary vertical and horizontal control surveying with least-squares adjustment and analysis. Practical geodetic transformations are used as well as instrument adjustments and calibration. Two hours of lecture and three hours of laboratory.

**ENCE 2350 Statics** 3 cr.  
Offered each semester. Prerequisites: MATH 2108 or 2111 and PHYS 1061; credit or registration in ENCE 2301 or CSCI 1201. Vectors; two-dimensional and three-dimensional force systems; equilibrium; friction; centroids; mass moments of inertia; second moments of areas.

**ENCE 2351 Mechanics of Materials** 3 cr.  
Offered each semester. Prerequisite: ENCE 2350. Simple stress and strain; shear, moments, stresses and deflections in beams; combined stresses; thermal stresses; statically indeterminate members; columns.

**ENCE 2355 Engineering Mechanics** 3 cr.  
Prerequisites: CSCI 1201, MATH 2108 or 2111, and PHYS 1061. Vectors; equilibrium of force systems; friction; centroids; moment of inertia; kinematics and kinetics; work and energy; impulse and momentum.

**ENCE 3093 Special Problems in Civil Engineering** 1 cr.  
Prerequisite: senior standing in engineering. Seminar, independent study, and research participation in civil engineering.

**ENCE 3094 Special Problems in Civil Engineering** 1 cr.  
Prerequisite: senior standing in engineering. Seminar, independent study, and research participation in civil engineering.

**ENCE 3095 Special Problems in Civil Engineering** 1 cr.  
Prerequisite: senior standing in engineering. Seminar, independent study, and research participation in civil engineering.

**ENCE 3300 Computational Methods in Civil Engineering** 3 cr.  
Prerequisites: Credit or registration in MATH 2221 or consent of department. Samples and populations, measures of the distribution of data, normal or Gaussian and other distributions, regression and correlation, hypothesis testing, modeling, computers and error analysis; interpolation, numerical differentiation and integration; and function approximation and data fitting for problems in civil and environmental engineering.

**ENCE 3318 Principles of Hydraulics** 3 cr.  
Prerequisites: ENME 2750 and PHYS 1062. An introductory course to the fundamentals of hydraulics and environmental water resources engineering. Fluid properties, conservative equations, flow resistance in pipes and open channels, dimensional analysis, pipe flow and pipe measurements.

**ENCE 3323 Introduction to Environmental Engineering** 4 cr.  
Prerequisites: CHEM 1018 credit or registration in ENCE 3318 or credit or registration in both ENME 3720 and ENME 3716. Topics include:

- water quality, water and wastewater treatment processes, air pollution control, and solid and hazardous waste management. Laboratory provides hands-on analytical experience with various pollution parameters. Three hours of lecture and three hours of lab.
- ENCE 3340 Geotechnical Engineering** 3 cr.  
Fall semester. Prerequisites: EES 1001, ENCE 2351 and 3318 or ENME 3720; credit or registration in ENCE 3300 and ENCE 3341. Properties and behavior of soils as engineering materials; the origin and classification of soils; permeability of soils; compressibility and strength characteristics of soils; elementary treatment of consolidation, earth pressure, and bearing capacity. Determination of engineering properties of soils in the laboratory. Two hours of lecture and three hours of laboratory.
- ENCE 3341 Soil Mechanics Laboratory** 1 cr.  
Prerequisite: credit or registration in ENCE 3340 or consent of department. Properties and behavior of soils as engineering materials. Data collection, computations, and presentation of results.
- ENCE 3356 Structural Analysis** 4 cr.  
Prerequisites: ENCE 2351 and 2301. Analysis of structures using manual and computer methods. Analysis of determinate and indeterminate structures subjected to static loads by the following methods: moment-area principles, virtual work, conjugate beam, moment distribution, displacement method.
- ENCE 3390 Basic Project Management** 3 cr.  
Prerequisites: Junior standing. Civil engineering economic analysis including equivalence, cash flow diagrams, present worth, decision analysis, estimating economic life, project definition, the project manager, planning, scheduling, critical path analysis, and project evaluation and review techniques.
- ENCE 3900 Senior Honors Thesis** 1 cr. min./6 cr. max.  
Prerequisites: admission to the Honors Program, and approval by the director of the Honors Program and the chair of the department. Senior level research and/or design project in civil engineering. Thesis and oral examination required. May be repeated for credit with total hours not to exceed six.
- ENCE 4096/G Special Topics in Civil Engineering** 3 cr.  
Prerequisite: junior standing in engineering. Courses may be taken for credit three times. No student may earn more than nine hours degree credit in courses ENCE 4096 and 4097.
- ENCE 4097/G Special Topics in Civil Engineering** 3 cr.  
Prerequisite: junior standing in engineering. Courses may be taken for credit three times. No student may earn more than nine hours degree credit in courses ENCE 4096 and 4097.
- ENCE 4310/G Photogrammetry and Control Surveying** 3 cr.  
Prerequisite: ENCE 2310 or consent of department. Photographic measurements and refinement, vertical and tilted photographs, planning for aerial photography, conformal coordinate systems and grids, horizontal and vertical control for photogrammetric mapping, ellipsoidal datum shifts, stereoscopic plotting instruments, orthophotos, panoramic and orbital photography, terrestrial and close-range photogrammetric control extension, and analytical rectification by single ray.
- ENCE 4312/G Topographic Engineering Design** 3 cr.  
Prerequisite: ENCE 2310 or consent of department. Design of projects requiring advanced topics in surveying and mapping disciplines. Coordinate systems, horizontal and vertical control, geodetic astronomy, inertial Surveying, geodetic satellites, and photogrammetry.
- ENCE 4318/G Hydraulic Engineering Systems** 3 cr.  
Prerequisite: ENCE 3318 or ENME 3720 and 3716 or consent of the department. Flow in pipe networks open channel flow; design of rigid and erodible boundary open channels; similitude and hydraulic modeling; design of hydraulic structures. Two hours of lecture and three hours of laboratory/tutorial.
- ENCE 4319 Fluid Mechanics & Hydraulic Engineering Laboratory** 1 cr.  
Co-requisite: ENCE 4318. The time will be equally split between laboratory experiments in the Hydraulics laboratory and design tutorials. The physical experiments are designed to demonstrate the continuity, energy and momentum principles; flow in hydraulic structures such as culverts, weirs, spillways, and stilling basins; steady and unsteady flow including gravity waves; rigid and mobile bed flows. The tutorials will cover: the use of applicable software for hydraulic systems and the design of hydraulic structures or components of hydraulic structures (3-hour laboratory).
- ENCE 4320/G Water Resources Engineering Systems** 3 cr.  
Prerequisite: ENGL 2152, ENCE 2301 and 4318. Hydrological processes and computations; groundwater flow and hydraulics of wells; probability concepts in hydraulic design; reservoirs; hydro-machinery; drainage and urban collection systems; flood mitigation; navigation; water law; economics of water resources; water resources development and systems approach. Two hours of lecture and three hours of laboratory.
- ENCE 4321/G Hydrology** 3 cr.  
Prerequisite: ENCE 3318 or ENME 3720 and credit or registration in ENCE 3300. The hydrologic cycle, runoff relations, unit hydrographs, flood routing, probability in hydrology, hydrologic simulation, and stochastic methods in hydrology.
- ENCE 4322/G Design of Water Supply and Sewer Systems** 3 cr.  
Prerequisite: ENCE 3320. Design of water supply systems including surface water intakes, groundwater wells, pumping, pipelines, storage reservoirs, and water distribution systems. Design of urban drainage systems including: sanitary sewer systems, storm water collection systems, sewage pumping stations, and appurtenances and special structures.
- ENCE 4323/G Design of Water and Wastewater Treatment Systems** 3 cr.  
Prerequisite: ENCE 3323. Design and analysis of unit operations and processes for water and wastewater treatment processes. Topics include physical, chemical, and biological unit processes. Course will focus on water and wastewater treatment plant design including comparisons of alternate treatment processes.
- ENCE 4325/G Waste Management** 3 cr.  
Prerequisite: Senior standing in science or engineering or consent of the department. Solid waste management principles and practices including engineering design of integrated solid waste systems. Methods of predicting waste generation, composition, and characterization are covered. Collection, handling, treatment, and disposal of solid waste is also addressed. Recycling and reuse, engineering cost estimation, and regulatory/legal aspects of waste management are included.
- ENCE 4328/G Air Pollution Control** 3 cr.  
Prerequisites: ENCE 3318 or ENME 3720, and ENME 3770 or equivalent. Air pollutants and their sources, air pollution meteorology, effect of air pollution on man, vegetation and materials, air quality standards, atmospheric sampling and analysis, dispersion of pollutants, technology of air pollution control, and combustion evaluation.
- ENCE 4329/G Modeling and Design in Environmental Hydraulics** 3 cr.  
Prerequisite: Senior standing and approval of department. The hydrologic cycle and water quality; systems engineering and environmental pollution control; mathematical and statistical concepts;

- optimization techniques; and applications in surface subsurface water waste treatment and environmental management.
- ENCE 4330/G Groundwater Engineering** 3 cr.  
Prerequisite: senior classification in Civil Engineering or Earth and Environmental Sciences or consent of department. Fundamentals of fluid mechanics and geotechnical engineering applied to flow in porous media. Elements of the hydrologic cycle. Occurrence of groundwater. Hydraulics of aquifers and groundwater development.
- ENCE 4340/G Foundation Engineering** 3 cr.  
Spring semester. Prerequisite: ENCE 3340 or consent of department. Application of soil mechanics principles to the design of footings, foundations, embankments, and retaining walls. Subsurfaces investigations, dewatering, deep excavations, piles, caissons and cofferdams. Case histories will be cited.
- ENCE 4358/G Structural Steel Design** 3 cr.  
Prerequisite: ENCE 3356 or consent of department. Concepts of and introduction to elastic and plastic design of steel structures. Elastic design of structural elements, i.e. tension members, columns, beams, beam-columns and connections, incorporating AISC design specifications and manual. Critical comparisons of specifications with theories.
- ENCE 4359/G Structural Concrete Design** 3 cr.  
Fall semester. Prerequisite: ENCE 3356 or consent of department. Theory and design of reinforced concrete beams, girders, slabs, columns, floor systems, and footings incorporating ACI Code provisions for working stress and ultimate strength design. Consideration of deflection, torsion, creep, and shrinkage. Review of experimental data and current design specifications.
- ENCE 4363/G Structural Design with Wood, Masonry, Aluminum and Plastics** 3 cr.  
Prerequisites: ENCE 3356, 4358, and 4359. Introductions to structural design with wood, masonry, aluminum, and plastics; material behavior, loading, analysis, design codes.
- ENCE 4364/G Steel Bridge Design & Construction** 3 cr.  
Prerequisite: ENCE 4358 and previous Work on Steel Bridge Competition. Design concepts, loadings, codes for steel bridges. Steel bridge design and construction in compliance with AISC current year competition rules.
- ENCE 4386/G Principles of Transportation and Highway Engineering** 3 cr.  
Prerequisites: ENCE 3300, 3340 and credit or current enrollment in ENCE 2310, 4318, and 4321. An examination of the principles and concepts which influence transportation system performance and the analytical techniques which are employed to solve problems in transportation design, operations, and planning.
- ENCE 4387/G Traffic Engineering** 3 cr.  
Prerequisites: ENCE 3386 and MATH 2314. Definition and measurement of traffic stream variables, statistical distributions, traffic stream models, and capacity of roadway and intersections.
- ENCE 4390/G Senior Civil Engineering Design Project** 3 cr.  
Prerequisites: Credit or registration in ENCE 3390, 4318, 4323, 4340, 4386, and 4359. Individual or team study and evolution of a project, involving engineering design, synthesis or systems in civil engineering. Using basic information provided, a design will be developed for a comprehensive civil engineering project. The design process will consist of the following phases: information collection; generation of alternate solutions; preliminary evaluation; analysis; synthesis; review and implementation. A comprehensive written report and oral presentation are required. Not open to graduate students.
- ENCE 4399/G Civil and Environmental Seminar** 2 cr.  
Prerequisite: Senior Standing in degree program. Not for credit in CEE graduate program. This course addresses professional, licensure, and ethical responsibilities of the civil engineer, as well as communication concepts. Contemporary issues will be included to further develop an understanding of the impact of engineering solutions from a global and/or societal context. The ability of students to apply the fundamental knowledge of mathematics, sciences, and engineering will be tested. Passing this course is a requirement for graduation. Weekly meeting will include a one-hour lecture and a three-hour laboratory.
- ENCE 4723/G Ocean and Coastal Engineering** 3 cr.  
(ENCE 4723, ENME 4723, and NAME 4723 are cross-listed). Prerequisite: ENME 3720 or ENCE 3318 or consent of the department. Elements of wind and wave generation and forecasting, tidal phenomena, hurricanes, storm surge, tsunamis, interaction of waves and wind with coastal and offshore structures, coastal and estuary processes. Design aspects of various topics are discussed and analyzed: e.g., offshore structures, spar buoys, underwater pipelines, oil production risers, coastal protection, mooring cables, vortex shedding, gas flares, beach formation, harbor resonance, structure resonance, etc. A design project is required.
- ENCE 6095 Advanced Civil Engineering Problems** 1 cr. min./6 cr. max.  
Individual projects in selected fields of civil engineering. Independent work under the direction of a faculty member on a subject of mutual interest. Students must find faculty sponsor. A written report will usually be required. Course may be repeated for credit but no more than a total of six credit hours may be applied towards a degree. Section number will correspond with credit to be earned.
- ENCE 6096 Advanced Special Topics in Civil Engineering** 3 cr.  
Prerequisite: consent of department. Special lectures or independent study on subjects of current interest in the various fields of civil engineering. May be taken for credit three times. No student may earn more than a total of nine hours of degree credit in courses ENCE 4096, 4097, 6096, 6097, and 6098.
- ENCE 6097 Advanced Special Topics in Civil Engineering** 3 cr.  
Prerequisite: consent of department. Special lectures or independent study on subjects of current interest in the various fields of civil engineering. May be taken for credit three times. No student may earn more than a total of nine hours of degree credit in courses ENCE 4096, 4097, 6096, 6097, and 6098.
- ENCE 6098 Advanced Special Topics in Civil Engineering** 3 cr.  
Prerequisite: consent of department. Special lectures or independent study on subjects of current interest in the various fields of civil engineering. May be taken for credit three times. No student may earn more than a total of nine hours of degree credit in courses ENCE 4096, 4097, 6096, 6097, and 6098.
- ENCE 6312 Coordinate Systems in Cartography and Geodesy** 3 cr.  
Prerequisite: consent of department. Geometric Geodesy and ellipsoidal transformations. Conformal mapping of the ellipsoid, Gauss-Kruger Transverse Mercator, Lambert Conformal Conic, Normal Mercator, Oblique Stereographic, Rectified Skew Orthomorphic, Laborde, and conformal variations. Authalic, Aphylactic, and Azimuthal Projections with computation of the geodesic. Grids and Datums of the world are covered with emphasis on Lease-Block computation legal requirements in foreign nations for geophysical and mineral exploration. Advanced theory and design computations for senior cartographers, surveyors, and civil engineers.
- ENCE 6317 Stormwater Management** 3 cr.  
Prerequisites: consent of department. Basic principles of stormwater engineering and management; widely used best management

- practices including stormwater detention and retention; facility analysis and design.
- ENCE 6318 Water Quality Simulations** 3 cr.  
Prerequisite: ENCE 3320. Water quality modeling from a perspective of practicality and reliability; emphasis on model calibration and verification procedures and methodologies for quantifying uncertainties associated with model predictions.
- ENCE 6319 Hydraulics of Free Surface Flow** 3 cr.  
Prerequisite: ENCE 3320. Natural and artificial open channels, steady and unsteady flow, water surface profiles, channel transitions, hydraulic jump, secondary flow, and application of energy and momentum principles.
- ENCE 6320 Design of Hydraulic Structures and Systems** 3 cr.  
Prerequisite: ENCE 3320 or equivalent. Design of hydraulic structures including consideration of types and functions of dams; hydraulic design of spillways, crest gates, outlet works, and stilling basins; design considerations for hydraulic machinery, hydroelectric power, canals, and navigation locks.
- ENCE 6321 Advanced Hydrology** 3 cr.  
Prerequisites: ENCE 4321 or equivalent CSCI 1201 or knowledge of computer programming. Application of hydrologic model simulation and stochastic methods in hydrology. Computer application for modeling of large scale problems. Emphasis upon problems of local interest such as flood control and urban drainage with examination of design alternatives.
- ENCE 6322 Hydraulics and Environmental Modeling** 3 cr.  
Prerequisite: ENME 3020 or equivalent. Hydraulic and environmental variables; dimensional analysis; design of experiments and physical models; formulation of numerical models for flow problems; and application of numerical and mathematical methods to surface and subsurface flow and environmental problems.
- ENCE 6323 Sediment Transport** 3 cr.  
Prerequisite: ENCE 3320 or consent of department. Particle size analysis, fluid-particle systems, incipient motion. Suspended and total loads, bedforms, sediment measurements. Physical and numerical modeling of sediment transport. Transport of liquid-solid mixtures in pipes.
- ENCE 6324 Groundwater Hydraulics** 3 cr.  
Prerequisite: ENCE 3340 and 4330 or equivalent. Groundwater systems and groundwater flow relationships; well hydraulics. Environmental aspects of groundwater. Hydraulic modeling of groundwater systems. Management models in groundwater.
- ENCE 6325 Solid Waste Management** 3 cr.  
Prerequisite: consent of department. Solid waste management practices, including generation, composition, collection, handling, and disposal. Recycling and reuse together with costs, marketing, and legal regulatory aspects are included.
- ENCE 6327 Hazardous Waste Management** 3 cr.  
Prerequisite: consent of department. Hazardous waste management practices: including identification and classification of waste; regulations; treatment, storage, and disposal techniques; and facilities parameters.
- ENCE 6328 Advanced Hazardous Waste Materials Management** 3 cr.  
Prerequisite: ENCE 6327. Management methods for treatment storage and disposal of hazardous materials and wastes with emphasis on current industry practices. Six field trips to commercial hazardous waste treatment and disposal facilities possibly including superfund sites.
- ENCE 6330 Treatment Plant Process Microbiology** 4 cr.  
Prerequisites: ENCE 4323; Consent of the Department. An advanced lecture and laboratory course for the biological process design engineer which will focus upon cellular microbiology and biochemistry as it directly relates to biological treatment and stabilization processes. It will address aerobic treatment anaerobic treatment and stabilization of toxic and hazardous wastes.
- ENCE 6331 Treatment Plant Process Chemistry** 4 cr.  
Prerequisites: CHEM 1011 or 1018; ENCE 4323; consent of the department. An advanced lecture and laboratory course for the process of design engineer which focuses upon aquatic chemistry as it directly relates to engineered water and wastewater treatment and stabilization processes. It includes chemical equilibria, thermodynamics, acid-base equilibria, solubility equilibria, oxidation-reduction equilibria, process kinetics, surface and colloidal chemistry, water treatment, stabilization, softening and neutralization, ion exchange, carbon adsorption, and applications of redox chemistry.
- ENCE 6332 Water Treatment Processes and Design** 3 cr.  
Prerequisites: ENCE 4322, 4323, and 6331. A comprehensive presentation of water treatment processes with their application to treatment plant design. Laboratory experiments on the principal water treatment processes. Three hours of lecture and two hours of laboratory.
- ENCE 6333 Waste Water Treatment Processes and Design** 3 cr.  
Prerequisites: ENCE 4322, 4323, and 6330. A comprehensive presentation of wastewater treatment processes with their application to treatment plant design. Laboratory experiments on biological wastewater treatment processes. Three hours of lecture and two hours of laboratory.
- ENCE 6335 Pollution Prevention** 3 cr.  
Prerequisite: ECON 2000. Identification of pollution prevention opportunities and implementation of proven methodology as defined by the United States Environmental Protection Agency. Emphasis on economic evaluation of pollution prevention practices and investments for various manufacturing and post-consumer processes.
- ENCE 6336 Air Quality Monitoring** 3 cr.  
Prerequisites: ENCE 4328 or consent of the department. Principles of measurement for ambient air quality, source testing and fugitive emissions. Both grab sampling & continuous sampling techniques and analysis methods will be studied. Standard instruments used in air quality monitoring including continuous & ambient emissions monitoring instruments/systems and regulatory aspects will be covered in the course.
- ENCE 6337 Air Pollution Meteorology and Atmospheric Dispersion Modeling** 3 cr.  
Prerequisites: ENCE 4328 or consent of the department. Fundamentals of air pollution meteorology and atmospheric dispersion of pollutants. Mathematical models including Gaussian model, use of PC-based dispersion models to predict ambient concentrations of pollutants due to point, line, area and volume source emissions. Regulatory aspects of modeling and guidelines.
- ENCE 6340 Mechanical Behavior of Soils** 3 cr.  
Prerequisite: ENCE 3340 or equivalent. Re-examination of basic principles of soil mechanics; detailed study of physicochemical nature of soils; stress states and stress-strain-time behavior; advanced theories and detailed study of shear strength of cohesionless and cohesive soils; in-depth evaluation of the strength compressibility and permeability of natural soils.

- ENCE 6341 Earth Structures** 3 cr.  
Prerequisite: ENCE 3340 or equivalent. Design of projects involving earth dams, embankments, and natural slopes; site investigation, soil properties and compaction, analysis of seepage and slope stability; seepage control and landslide prevention; performance observations and practical consideration in design and construction; and case studies of types of failures.
- ENCE 6342 Dewatering and Groundwater Control** 3 cr.  
Prerequisites: ENCE 3340 or equivalent. The study of the seepage through earthen dams, construction excavations and hydraulic structures. Properties of phreatic surfaces. Seepage pressures, piping and boiling. Construction and utilization of flow nets. Groundwater mechanics applications including flow characteristics and changes in flow due to pump and drain systems.
- ENCE 6343 Advanced Soil Mechanics Laboratory** 1 cr.  
Prerequisite: ENCE 3340 or equivalent. Laboratory measurement of soil properties from introductory to advanced techniques. Emphasis on strength, compressibility, and permeability tests.
- ENCE 6344 Geotechnical Engineering for Waste Management** 3 cr.  
Prerequisites: ENCE 3320, 3340 or equivalent. An overview of the theoretical and practical aspects of the site selection, design, construction, and performance of waste disposal facilities, state and federal regulations governing solid and hazardous waste.
- ENCE 6345 Numerical Methods in Geotechnical Engineering I** 3 cr.  
Prerequisite: ENCE 4340, ENME 3020 or consent of department. Re-examination of basic concepts from solid mechanics; constitutive models, strain-displacement relations; and use of finite difference methods, finite element methods and other numerical methods, with application to beams, slabs, and pavements.
- ENCE 6346 Numerical Methods in Geotechnical Engineering II** 3 cr.  
Prerequisite: ENCE 6345. Consolidation, flow through porous media, advanced methods applied to design and analysis of soil-structure systems; shallow and pile foundations, earth retaining structures, and limit design.
- ENCE 6347 Ground Improvement** 3 cr.  
Overview of recent methods of placement and improvement of soils for engineering construction practice. Compaction methods including vibro techniques, dynamic compaction and compaction grouting. Use of preloading and acceleration of consolidation settlement. Application of electro-kinetics in construction practice. Various methods and applicability of in-situ earth reinforcement. Excavation support methods and groundwater lowering and drainage techniques.
- ENCE 6348 Numerical Methods in Civil Engineering** 3 cr.  
Prerequisites: Computer programming skills ENME 3020 or equivalent; or consent of instructor. Numerical techniques for the formulation and solution of both discrete and continuous systems of equilibrium propagation eigenvalue and optimization problems.
- ENCE 6349 Deep Foundations** 3 cr.  
Prerequisite: ENCE 3340 and ENCE 4340. Review of pile materials, equipment and installation. Evaluation of the soil parameters for pile foundation by laboratory and field tests. Analysis and design of piles for vertical and lateral loads. Application of design procedures for drilled shafts. Use and interpretation of pile load tests. Principles of pile foundations under dynamic loads.
- ENCE 6350 Matrix Methods in Structural Engineering** 3 cr.  
Prerequisites: ENCE 3356 or equivalent, CSCI 1201 or knowledge of computer programming. Review of basic matrix operations; classical methods of structural analysis in matrix formulation; work and energy principles; analysis of structures by the flexibility and stiffness methods; development and application of computer programs for matrix methods of analysis; introduction to finite element method.
- ENCE 6351 Advanced Design of Structural Systems** 3 cr.  
Prerequisite: consent of department. Advanced design course offered on a demand basis with registration only by demonstration of adequate preparation. Design of pressure vessels, tanks, folded plates, and shell roofs; design of advanced bridge systems including orthotropic decks, box-girder bridges, and post-tensioned sectional bridges; selected advanced design topics.
- ENCE 6352 Reliability Analysis in Civil Engineering** 3 cr.  
Prerequisites: ENCE 3356, 3320, and 3340, and MATH 2314. Analysis of failure probability for civil engineering systems. Construction of load and capacity probability distributions from data. Introduction to decision theory. Applications to structures, soils, planning, hydraulics, and other civil subareas.
- ENCE 6353 Advanced Mechanics of Materials** 3 cr.  
Prerequisite: ENCE 2351. Advanced topics in mechanics of materials, including torsion of non-circular prismatic bars, shear center, unsymmetrical bending, curved beams, flat plates, elastic strain energy, and theories of failure and application to machine and structural design. One-third of course is devoted to analysis and two-thirds to synthesis and design.
- ENCE 6355 Theory of Plates and Shells** 3 cr.  
(ENCE 6355 and ENME 6355 are cross-listed) Prerequisites: ENCE 6353 and MATH 2221. Laterally loaded plates with various boundary conditions; elastic stability of plates; differential geometry of surfaces; equilibrium and strain equations; membrane theory of shells; shells of revolution with emphasis on cylindrical and spherical shells.
- ENCE 6357 Geosynthetics** 3 cr.  
Prerequisites: ENCE 3340. Overview of geosynthetics. Functions and mechanisms of geotextiles. Design procedures using geotextiles for drainage, reinforcement and other functions. Design procedures for geogrid reinforcement. Design methods for drainage systems using geonets. Use and application of geomembranes in landfill liners. Design and construction methods using geosynthetic clay liners. Uses and design applications of geopipes and geocomposites.
- ENCE 6358 Advanced Steel Design** 3 cr.  
Prerequisites: ENME 3356 and 4358. Design of plate girders, composite beams, and connections; plastic hinges and introduction to plastic analysis of steel structures; and computer-aided design of steel space frame and introduction to steel bridge design.
- ENCE 6359 Advanced Concrete Design** 3 cr.  
Prerequisite: ENCE 3356 and 4359. Structural systems for buildings; lateral load analysis and design of shear walls; design of two-way slabs; design of biaxially loaded columns; torsion in concrete beams; introduction of prestressed concrete design; and general aspects of design.
- ENCE 6360 Plastic Design of Steel Structures** 3 cr.  
Prerequisite: ENCE 4358. Collapse mechanism and plastic analysis; stability and deformation considerations; plastic design and methods of optimization; shakedown analysis; introduction to load and resistance factor design.
- ENCE 6361 Prestressed Concrete Design** 3 cr.  
Prerequisite: ENCE 4359. Principles and methods of prestressing; design for flexure, shear, temperature, and fatigue; roof and floor framing systems, bridge construction, columns, and piles; connections and erection methods for precast members; pretensioning and posttensioning systems and procedures; and special design topics.

- ENCE 6371 Structural Stability** 3 cr.  
Prerequisites: ENCE 4358 and MATH 2221. Review of elastic column buckling; basic consideration of bifurcation; stability of frames; analysis of lateral torsional stability of beams and columns; and inelastic buckling of columns.
- ENCE 6375 Design of Fixed Offshore Platforms** 3 cr.  
(ENCE 6375 and NAME 6175 are cross-listed) Prerequisites: ENCE 3356 (or NAME 3120), ENCE 4358 (or NAME 3120), ENCE 4340, or permission of Department. Design of fixed offshore platform structures and their foundations; loadings, materials, design codes; design examples.
- ENCE 6384 Traffic System Analysis** 3 cr.  
Prerequisite: ENCE 4387. Basic concepts in traffic flow theory; generalized demand, price, and capacity relationships applied to traffic flow prediction; flow in transportation networks; and the evaluation of alternative highways and traffic engineering designs.
- ENCE 6385 Design of Highways** 3 cr.  
Prerequisite: ENCE 3386. Location of routes, vertical and horizontal alignment, mass curve computations, design of drainage structures, intersection design, pavement design, and computer applications. Each student will complete a design project.
- ENCE 6386 Mass Transportation** 3 cr.  
Prerequisite: ENCE 6384. A study of the different public transportation systems and technologies, comparison of different modes, mass transit operations, models for basic operational parameters, optimal model choice.
- ENCE 6390 Project Management** 3 cr.  
(ENCE 6390, ENMG 6120, and MANG 6472 are cross-listed) Prerequisite: consent of department. Encompasses project organization structure, project planning and control. Discussions will include performance analysis based on earned value. Emphasis will be given to project management information systems. Human behavior in the project setting will be discussed.

## Electrical Engineering

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- ENEE 1001 Introduction to Information Systems and Technology** 3 cr.  
Introduction to three foundational disciplines of the information technology age: electrical and computer engineering, computer science, and management information systems (MIS). Students will be provided with an overview of the three disciplines and how they interact to form a new discipline-information systems and technology. This course will be cross-listed with MANG 1001 and CSCI 1001. Students taking ENEE 1001 cannot receive credit for MANG 1001 and CSCI 1001. Also, this course may not be used to satisfy UNO's general degree requirement for computer literacy and may not be taken for credit in the Electrical Engineering program. Prerequisite: None"
- ENEE 2500 Basic Electrical Circuits** 3 cr.  
Prerequisite: Mathematics 2108. Offered each semester and summer session. Introduction to basic electrical circuit analysis. This course carries no degree credit in the electrical engineering curriculum.
- ENEE 2510 Circuits Laboratory** 1 cr.  
Prerequisite: Concurrent registration in ENEE 2551 An introduction to electrical measurements, instruments, and circuit phenomena complementing the lecture course ENEE 2551. Three hours of laboratory. Note that this laboratory must be taken concurrently with the course ENEE 2551.
- ENEE 2550 Circuits I** 3 cr.  
Prerequisites: MATH 2111 (or MATH 2108). Introduction to linear, time-invariant, and lumped circuits. Kirchhoff's laws, DC analysis of resistive circuits, and transient analysis of RLC circuits.
- ENEE 2551 Circuits II** 3 cr.  
Prerequisite: ENEE 2550, PHYS 1062 and concurrent registration in ENEE 2510. AC steady-state analysis of RLC circuits and frequency response; three-phase circuits and transformers; Laplace transform methods.
- ENEE 2582 Digital System Design** 3 cr.  
Prerequisite: CSCI 1205, credit or registration in ENEE 2551, concurrent registration in ENEE 2586. The characterization and design of digital, logic, and switching networks with emphasis on integrated circuits.
- ENEE 2586 Logic Circuits Laboratory** 1 cr.  
Prerequisite: Concurrent registration in ENEE 2582. Selected experiments examining logic devices and circuits, and including a final design project, to accompany and complement the lecture course ENEE 2582. Three hours of laboratory.
- ENEE 3091 Senior Electrical Engineering Design Project** 1 cr.  
Prerequisite: To be taken the semester immediately before the final semester and with approval of the Department Chair. Team study and evolution of a project involving engineering design in electrical engineering with emphasis on the initialization of the design project. Comprehensive written and oral reports are given.
- ENEE 3092 Senior Electrical Engineering Design Project** 3 cr.  
Prerequisite: ENEE 3091. To be taken in the final semester before graduation and with the approval of the Department Chairman. Team study and evolution of a project, involving engineering design in electrical engineering with emphasis on the implementation of the design project. Comprehensive written and oral reports are required.
- ENEE 3093 Special Problems in Electrical Engineering** 1 cr.  
Prerequisite: Senior standing in engineering. Seminar, independent study, and research participation in electrical engineering.
- ENEE 3094 Special Problems in Electrical Engineering** 1 cr.  
Prerequisite: Senior standing in engineering. Seminar, independent study, and research participation in electrical engineering.
- ENEE 3095 Special Problems in Electrical Engineering** 1 cr.  
Prerequisite: Senior standing in engineering. Seminar, independent study, and research participation in electrical engineering.
- ENEE 3501 Basic Electrical Machinery** 3 cr.  
Prerequisite: ENEE 2500. Review of electric circuit theory and its application to electro-mechanical energy conversion, including the operation of dc, induction, and synchronous machines and transformers. This course carries no degree credit in the electrical engineering curriculum.
- ENEE 3511 Energy Conversion Laboratory** 1 cr.  
Prerequisite: Concurrent registration in ENEE 3540. Selected experiments to accompany the lecture course ENEE 3540. This laboratory must be taken at the same time as ENEE 3540. Three hours of laboratory.
- ENEE 3512 Microprocessor Design Lab** 1 cr.  
Co-requisite: Concurrent registration in ENEE 3582. Selected experiments in assembly language programming and digital design using microprocessors.
- ENEE 3514 Computer Architecture Laboratory** 1 cr.  
Co-requisite: Concurrent registration in ENEE 3583. Selected experiments examining programmable logic, VHDL and logic synthesis, and including a final design project, to accompany and complement the lecture course ENEE 3583. Three hours of laboratory.

- ENEE 3517 Engineering Electronics Laboratory** 1 cr.  
Prerequisite: Concurrent registration in ENEE 3543. Selected experiments to accompany the lecture course ENEE 3543. Three hours of laboratory.
- ENEE 3518 Electrical Engineering Laboratory** 1 cr.  
Offered each semester and summer session. Prerequisite: credit or registration in ENEE 3501. A laboratory in basic electronics, instrumentation, and electric power devices for students not majoring in electrical engineering. Three hours of laboratory.
- ENEE 3521 Electric Machinery** 3 cr.  
Prerequisite: ENEE 2551. Introduction to the theory of electromechanical energy conversion with special application to the theory and operation of electrical machines and machine control systems.
- ENEE 3522 Electrical Power Systems** 3 cr.  
Prerequisite: ENEE 2551. Introduction to industrial and utilities electric power systems, poly-phase systems, fault conditions, per-unit values, and the method of symmetrical components.
- ENEE 3530 Continuous and Discrete Signal and System Analysis** 3 cr.  
Prerequisite: ENEE 2551 and MATH 2511 and 2221. Fundamental techniques for the analysis of electrical and electronic signals and systems are introduced and include: signal representation, Fourier series, Fourier transform, Laplace transform, discrete Fourier transform, and the Z-transform. Emphasis will be placed on the application of the above techniques to engineering problems.
- ENEE 3533 Classical Control System Design** 3 cr.  
Prerequisites: ENEE 3530. Design of control systems using classical frequency response and Laplace transforms techniques; analysis and design of servo-systems using Nyquist, Bode, and root-locus diagrams; design criteria, system stability, frequency, and time response. State variable feedback.
- ENEE 3535 Communication System Design** 3 cr.  
Prerequisites: ENEE 3530 and concurrent registration in ENEE 3574. Design, characterization, and selection of communication methods and systems.
- ENEE 3540 Engineering Electronics** 3 cr.  
Prerequisite: ENEE 2551. The characteristics of modern solid-state non-linear and active devices, representative circuit models, and the analysis and design of typical circuits using these devices.
- ENEE 3543 Engineering Electronic Systems** 3 cr.  
Prerequisite: ENEE 3540 and concurrent registration in ENEE 3517. Use of solid-state devices as basic system building blocks. Multi-stage amplifiers, feedback amplifiers, stability and oscillators, analog systems, power circuits and systems. The accompanying laboratory, ENEE 3517, must be taken with this course.
- ENEE 3547 Digital Integrated Circuit Design** 3 cr.  
Prerequisites: ENEE 2582, 2586, and 3540. Study of characteristics of bipolar and CMOS logic gates and design techniques for digital integrated circuits.
- ENEE 3560 Engineering Electromagnetics I** 3 cr.  
Offered each semester. Prerequisites: MATH 2115, MATH 2221, and ENEE 2551. Electrostatics and magnetostatics and their applications to analysis and design in various fields of electrical engineering. Formulation of Maxwell's equation for electromagnetic fields in free space and in material media. The wave equation and plane-wave propagation.
- ENEE 3561 Engineering Electromagnetics II** 3 cr.  
Prerequisite: ENEE 3560. Maxwell's equations for time-varying electromagnetic fields and their applications; wave propagation through
- different media; design of transmission lines and waveguides; introduction to electromagnetic radiation; and antennas.
- ENEE 3572 Probabilistic Methods of Signal and System Analysis** 3 cr.  
Prerequisites: ENEE 3530. The fundamentals of probability theory are introduced. Application of probability theory to signal and system analysis is considered and includes correlation functions, spectral density, linear system response to random input signals, and system parameter optimization.
- ENEE 3574 Communication Systems Design Laboratory** 1 cr.  
Prerequisites: concurrent registration in ENEE 3535. Selected experiments examining fundamental performance and design concepts of modulation systems, including a design project. Three hours of laboratory.
- ENEE 3575 Voice Video Telecommunications System** 3 cr.  
Prerequisites: CSCI 1201, MATH 2108, and 2111, or consent of the department. Fundamental concepts of telecommunication voice and video systems are presented including telephony and video fundamentals, standards organizations and regulations, subscriber loop, trunk and feeder link technology, private branch exchange and central office techniques, voice digitization methods, modulation and multiplexing schemes, signal transport methods, and video compression approaches. Additional topics cover current trends in telecommunications.
- ENEE 3582 Digital Design Using Microcomputers** 3 cr.  
Prerequisite: ENEE 2582, ENEE 2586, and concurrent registration in ENEE 3512. The design of microcomputer based systems including both hardware and software considerations.
- ENEE 3583 Computer System Design** 3 cr.  
(ENEE 3583 and CSCI 4302 are cross-listed) Prerequisites: Credit or registration in ENEE 3582 and ENEE 3512, or credit in CSCI 3301 and 3401, or consent of department. Concurrent enrollment in ENEE 3514 is required for students in the Computer Engineering Concentration. The design process of digital computer systems is studied from the instruction set level, system architecture level, and digital logic level. Topics include machine organization, register transfer notation, processor design, memory design, and input/output considerations. Includes semester project.
- ENEE 3587 Microcomputer Interfacing** 3 cr.  
Prerequisites: ENEE 3582. The design of microcomputer based systems including both hardware and software considerations. Includes laboratory work and a semester project. Design projects with both written and oral reports will be required.
- ENEE 3900 Senior Honors Thesis** 1 cr. min./6 cr. max.  
Prerequisites: admission to the Honors Program and consent of the director of the Honors Program and the chair of the department. Senior-level research and/or design project in electrical engineering. Thesis and oral examination required. May be repeated for credit with total hours no to exceed six.
- ENEE 4096/G Special Topics in Electrical Engineering** 3 cr.  
Prerequisite: junior standing in engineering. Courses may be taken for credit three times. No student may earn more than nine hours degree credit in courses ENEE 4096 and 4097.
- ENEE 4097/G Special Topics in Electrical Engineering** 3 cr.  
Prerequisite: junior standing in engineering. Courses may be taken for credit three times. No student may earn more than nine hours degree credit in courses ENEE 4096 and 4097.
- ENEE 4131/G Reliability, Availability, and Maintenance of Engineering Systems** 3 cr.  
(ENMG 4131, ENME 4734, and ENEE 4131 are cross-listed) Prerequisite: MATH 2115. Review of probability and statistics; analytical

- stochastic models for component and system failures; strategies for inspection, maintenance, repair and replacement. Introduction to fault-tree and event-tree analysis; frequency and duration techniques; Markov models; and case studies.
- ENEE 4522/G Power System Planning and Design** 3 cr.  
Prerequisite: ENEE 3522. Theory and techniques for modeling and analyzing large power systems, including per unit system matrix methods, load flow methods, and optimal economic dispatch determination. Practical planning, design, and operational studies of large power systems. Transmission network design and generator dispatching considerations in large power systems. A design project with a written and oral report will be required.
- ENEE 4524/G Introduction to Power Systems Dynamics and Control** 3 cr.  
Prerequisite: ENEE 3522. The course introduces dynamics, oscillations, and control relating to power systems operation and planning. Topics covered include applications of: systems state space representation, solution of linear and nonlinear dynamic systems, linearization of nonlinear systems, equilibrium point stability study of linear and nonlinear systems, power system small signal stability analysis, transient stability analysis, equal area criterion, voltage stability analysis, power system stabilizers, and inter and intra area frequency oscillations in power systems.
- ENEE 4526/G Protective Relaying of Power Systems** 3 cr.  
Prerequisite: ENEE 3522. Protection of power system components like transmission lines, transformers, radial feeders, generators, and motors from faults and lightning. Differential protection of transformers, generator windings, and transmission lines. Distance protection of transmission lines. Relay coordination for radial feeders. Carrier protection. Use of current and voltage transformers.
- ENEE 4533/G Digital Control System Design** 3 cr.  
Prerequisite: ENEE 3533. Design and analysis of digital control systems using transform techniques and state-space methods.
- ENEE 4534/G Process Control Systems** 3 cr.  
(ENEE 4534 and ENME 4753 are cross-listed) Prerequisites: ENEE 3533 or ENME 3020. A study of contemporary automatic control methods for continuous industrial processes. Topics include characterization of typical process dynamics, plant identification, parameter estimation, controller tuning techniques, and industrial process instrumentation applications.
- ENEE 4535/G Introduction to Digital Signal Processing** 3 cr.  
Prerequisite: ENEE 3530. Fundamental concepts of digital processing are developed and include signal representation; Fourier series; z-transforms; discrete Fourier series; discrete random signals; data window functions; applications of DFT to convolution, auto and cross-correlation and power and energy spectrum distribution estimation; digital filter design; homomorphic signal processing.
- ENEE 4542/G Electronic Devices for Integrated Circuits** 3 cr.  
Prerequisites: ENEE 3540 and PHYS 2064. Study of operating principles of modern electronic devices including p-n junctions bipolar junction transistors (BJTs) and metal-oxide-semiconductor field-effect transistors (MOSFETs). The device models are presented using the parameters and models in PSpice for integrated circuit design and analysis. This course provides a foundation for understanding the basics of modern electronic device technology.
- ENEE 4543/G Power Electronics and Drives** 3 cr.  
Prerequisites: ENEE 3521 and 3540. Introduction to semiconductor devices, circuits with diodes and power switching devices, controlled rectifiers, dc choppers, dc and ac motor drives including armature-controlled dc motor drives, inverterfed induction and synchronous motor drives.
- ENEE 4544/G Radio Frequency Circuit Design** 3 cr.  
Prerequisites: ENEE 3530 and 3540. Analysis and design of radio frequency systems. Differentiation between high frequency circuits, S parameters, Smith charts, noise figure, amplifier stability, transmission lines (microstrip design), antenna basics, phase locked loops (PLLs), and impedance matching techniques.
- ENEE 4545/G Introduction to VLSI Design** 3 cr.  
Prerequisites: ENEE 2582, 2586, and 3540. This course introduces fundamental principles of VLSI circuit design and covers the basic building blocks of large-scale digital integrated circuits/systems. Systematic design methods for modern digital VLSI circuits will be studied. Students will learn hands-on design methods using the VLSI CAD tools.
- ENEE 4554/G Analog and Digital Filter Design** 3 cr.  
Prerequisite: ENEE 3530. The synthesis of analog and digital filters; elementary one port synthesis; Darlington filter synthesis; phase correction; synthesis of Real-part, magnitude, and phase; realization of recursive and nonrecursive digital filters; windowing; parallel, cascade, and direct forms of digital filters; digital hardware implementation.
- ENEE 4562/G Engineering Optics** 3 cr.  
Optical fundamentals for engineering. Waves. Diffraction. Optical waveguides. Interferometry and Holography.
- ENEE 4566/G Introduction to Optical Networks** 3 cr.  
Prerequisites: ENEE 3530. To introduce the basics of optical communications networks, including the enabling technology, as well as network architectures and protocols. Optical components and interfaces, optical transmission and reception techniques will be studied. Network architectures of past and future generation optical networks will also be studied.
- ENEE 4570/G Audio Engineering** 3 cr.  
Prerequisite: ENEE 3530 3540 or consent of department. Analog and Digital Recording and Reproduction Techniques and Systems are examined, and include microphone design, selection and application; Mixing and Recording Equipment Design and Techniques; Reproduction System Elements, including Disc Reproduction, Pre-Amplification, Power Amplification, Tuner, Tape Recording, Signal Processors and speakers.
- ENEE 4572/G Advanced Communication System Design** 4 cr.  
Prerequisites: ENEE 3535 and 3572. Analysis of analog and digital modulation techniques in the presence of noise; receiver noise models, facsimile systems, signal vector theory, and introduction to information theory. Three hours of lecture and three hours of laboratory.
- ENEE 4575/G Data & Computer Communications** 3 cr.  
Prerequisites: CSCI 1201 and MATH 2111. Fundamental concepts of data and computer communications are presented including the open system interconnection (OSI) model, modems, local, metropolitan, and wide area networks (LAN, MAN, WAN), and high speed LANs, packets switching, Broadband ISDN, frame relay, asynchronous transfer mode (ATM), and the Internet protocol.
- ENEE 4585/G HDL Chip Design** 3 cr.  
Prerequisites: ENEE 3582. Teaches design methodology of digital systems using a modern hardware description language (HDL). Application of HDL to the modeling of digital circuits and systems will be explored. Emphasis will be on combination and sequential logic circuit design, finite state machine design, register transfer level (RTL) system design concepts, field programmable gate array (FPGA) implementation of digital systems, and synthesis algorithms.

- ENEE 6001 Electrical Engineering Graduate Seminar** 0 cr.  
EE Graduate Seminar is a noncredit course for master and Ph.D. students in Electrical Engineering to complete as part of the graduate program. It is organized as a weekly seminar to help graduate students give effective presentations, which is critical to have successful Electrical Engineering professional careers. Students registered for this course and faculty members invited to participate in the seminar give talks similar to oral presentations in national and international conferences. The topic of each presentation is research-oriented and the course evaluation is based on pass/fail criterion.
- ENEE 6095 Advanced Electrical Engineering Problems** 1 cr. min./6 cr. max.  
Offered each semester and summer session. Individual projects in selected fields of electrical engineering. Independent work under the direction of a faculty member on a subject of mutual interest. Student must find faculty sponsor. A written report will usually be required. Course may be repeated for credit but no more than a total of six credit hours may be applied toward a degree. Section number will correspond with credit to be earned.
- ENEE 6096 Advanced Special Topics in Electrical Engineering** 3 cr.  
Offered each semester and summer session. Prerequisite: consent of department. Special lectures or independent study on subjects of current interest in the various fields of electrical engineering. May be taken for credit three times. No student may earn more than a total of nine hours of degree credit in courses ENEE 4096, 4097, 6096, 6097, and 6098.
- ENEE 6097 Advanced Special Topics in Electrical Engineering** 3 cr.  
Offered each semester and summer session. Prerequisite: consent of department. Special lectures or independent study on subjects of current interest in the various fields of electrical engineering. May be taken for credit three times. No student may earn more than a total of nine hours of degree credit in courses ENEE 4096, 4097, 6096, 6097, and 6098.
- ENEE 6098 Advanced Special Topics in Electrical Engineering** 3 cr.  
Offered each semester and summer session. Prerequisite: consent of department. Special lectures or independent study on subjects of current interest in the various fields of electrical engineering. May be taken for credit three times. No student may earn more than a total of nine hours of degree credit in courses ENEE 4096, 4097, 6096, 6097, and 6098.
- ENEE 6521 High Voltage Engineering** 3 cr.  
Prerequisites: ENEE 3521 and 3522 or consent of department. Design considerations of high voltage transmission lines, electrical characteristics, electrostatic and electromagnetic theory and effects, corona phenomena, radio noise from transmission lines, audible noise, insulation coordination, and switching surges. Discussions of recent results on biological effects.
- ENEE 6522 Computer Aided Analysis of Large Power Systems** 3 cr.  
Prerequisite: ENEE 4522. Digital computer modeling and analysis techniques of large interconnected power systems. On-line power system control.
- ENEE 6523 Electric Machines and Drives** 3 cr.  
Prerequisite: ENEE 3521. Modeling of induction, synchronous, brushless permanent-magnet, and reluctance motor drives; modeling of machines in phase as well as in transformed variables; vector control of AC machines; current controllers; encoders; application characteristics.
- ENEE 6525 Optimization and Control Methods in Power System Operations** 3 cr.  
Prerequisite: ENEE 3522. Topics selected from power generation, operation and control, including economic dispatch, unit commitment, composite generation cost, hydrothermal coordination, generation control, interchange evaluation, system security, and state estimation.
- ENEE 6530 Linear Systems** 3 cr.  
Prerequisite: ENEE 3533. A study of the state equation method of system modeling. Topics include stability, controllability, observability, and realizability.
- ENEE 6531 Advanced Control Theory** 3 cr.  
Prerequisite: ENEE 6530. A study of advanced methods of analysis and synthesis of automatic control systems; continuous and discrete-time systems; control constraints; and estimation of optimum control in the presence of noise.
- ENEE 6532 Adaptive Control** 3 cr.  
Prerequisites: Electrical Engineering 6530. System identification and the control problem. Stability theory of dynamical systems. The design of adaptive observers. Adaptive control using the indirect approach. Applications of adaptive control.
- ENEE 6533 Advanced Random Variables and Stochastic Processes** 3 cr.  
Prerequisites: ENEE 3572. Engineering applications of probability theory. Problems on events, independence, random variables, distribution and density functions, expectations, and characteristic functions. Dependence, correlation, and regression; multi-variate Gaussian distribution. Stochastic processes, stationarity, ergodicity, correlation functions, special densities, random inputs to linear systems; Gaussian processes.
- ENEE 6534 Information Theory and Applications** 3 cr.  
Prerequisite: ENEE 4572. A study of the mathematical theory of communications. Noise and channel information rate. Theoretical and practical limits on channel capacity for various modulation schemes.
- ENEE 6535 Adaptive Filtering** 3 cr.  
Prerequisite: ENEE 6533. A study of linear optimum filtering including Wiener Filters and Kalman Filters; linear FIR adaptive filtering using method of steepest descent and recursive least squares; fast recursive algorithms and fast transversal filters.
- ENEE 6536 Advanced Digital Signal Processing with Speech Applications** 3 cr.  
Prerequisite: ENEE 4535. Advanced topics in digital signal processing including: short- and long-term data processing, linear prediction analysis, cepstral analysis, coding and feature enhancement, speech recognition, dynamic time warping, hidden Markov model and time-adaptive processing.
- ENEE 6537 Estimation and Kalman Filtering** 3 cr.  
Prerequisite: ENEE 6530 and 6533. Review of matrix algebra probability and random processes; maximum likelihood estimation; maximum a posteriori estimation; least squares estimation; minimum mean square error estimation; unbiasedness efficiency and consistency; Kalman filter; linear smoothing; nonlinear estimation; elements of adaptive estimation.
- ENEE 6538 Signal Detection** 3 cr.  
Prerequisite: ENEE 6533. Neyman-Pearson hypothesis testing; Bayes tests; minimax tests; sequential probability ratio test; optimal and locally optimum detectors; noise models for detection; detection of known signals; detection of random signals; performance evaluation of detectors.

- ENEE 6540 Compound Semiconductor Devices** 3 cr.  
Prerequisites: credit or concurrent registration in ENEE 4542. Properties of III-V and II-VI compound semiconductors, operating principles of compound semiconductor devices including transferred electron devices, heterostructure field effect transistors, heterostructure bipolar transistors, and tunneling devices.
- ENEE 6541 Semiconductor Device Modeling** 3 cr.  
Prerequisite: ENEE 4542. Modeling of semiconductor devices, modeling of equilibrium and non-equilibrium transport phenomena of charge carriers in semiconductors and semiconductor devices, Monte Carlo simulation, balance equations, and numerical simulation of submicron devices using balance equations and Monte Carlo method.
- ENEE 6543 Transport Theory in Semiconductors** 3 cr.  
Prerequisites: credit or concurrent registration in ENEE 4542. A study of kinetic and hydrodynamic transport theories in semiconductors and devices. Scattering processes in semiconductors, and equilibrium and non-equilibrium transport models including the drift-diffusion theory, hydrodynamic transport model, and Boltzmann transport equation.
- ENEE 6544 Theory of Semiconductors and Semiconductor Devices** 3 cr.  
Prerequisites: credit or concurrent registration in ENEE 4542. Quantum mechanics of semiconductors, energy band theory, semiconductor statistics, electronic and optical properties of semiconductors, and their applications to semiconductor devices.
- ENEE 6551 Network Synthesis** 3 cr.  
Prerequisite: ENEE 3551 or consent of department. Introduction of Brune's positive real functions, properties and testing of positive real functions, driving-point synthesis, transfer-function synthesis, approximation theory, and topics in N-port and N-terminal network synthesis.
- ENEE 6552 Network Synthesis** 3 cr.  
Prerequisite: ENEE 3551 or consent of department. Introduction of Brune's positive real functions, properties and testing of positive real functions, driving-point synthesis, transfer-function synthesis approximation theory and topics in N-port and N-terminal network synthesis.
- ENEE 6553 Advanced Computer-Aided Network Design** 3 cr.  
Advanced circuit analytic design techniques utilizing a digital computer. Time-domain and non-linear sensitivity analysis. Adjoint techniques. Circuit optimization steady-state analysis. Averaging methods. Decomposition and tearing algorithms. Digital circuit simulation.
- ENEE 6554 Advanced Digital and Analog Filter Design** 3 cr.  
Prerequisite: ENEE 4554. realizability of Passive Networks; Orchard's Conjecture; finite word length effects in digital filters multiplier coefficient sensitivity; wave digital filters and digital ladder filters; noise scaling limit cycle oscillations; block digital filters; multirate digital filters.
- ENEE 6563 Fourier Optics** 3 cr.  
Prerequisite: Graduate standing in engineering or science or consent of department. Analysis of Fourier transformations and linear systems theory using optical processing, image formation, and holography.
- ENEE 6564 Polarization Optics** 3 cr.  
Prerequisite: ENEE 3560 or equivalent. Theory and applications of polarization optics; various mathematical representations of the state of polarization of light and the transformation of polarization by different optical elements; operating principles of polarizing optical devices; instruments for measurement of the state of polarization of light (ellipsometers and photopolarimeters) and their numerous applications in engineering, surface science, and materials research.
- ENEE 6565 Introduction to Lasers** 3 cr.  
Prerequisite: A junior/senior-level calculus-based course in electromagnetics or optics and some familiarity with the relevant modern physics. Exception may be granted with the consent of the department. Review of the basic concepts of wave optics (propagation, diffraction, interference, coherence, and polarization), matrix ray optics, Gaussian beam optics, optical resonators, transitions and rate equations for atoms in blackbody and monochromatic radiation fields, homogeneous and inhomogeneous broadening of atomic or molecular transitions, the small-signal gain coefficient, laser amplifiers, gain saturation, laser single-mode and multi-mode oscillation, pulsed operation by Q-switching and mode locking.
- ENEE 6566 Optical Communications** 3 cr.  
Prerequisite: A B.S. degree in Engineering Mathematics or Physics or consent of the department. The methods and techniques employed in optical communications. Optical sources and photodetectors, modulation and reception schemes, and characteristic models of both fiber optic and atmospheric channels will be examined. Overall optical system performance analysis will also be addressed.
- ENEE 6567 Semiconductor Optoelectronics** 3 cr.  
Prerequisite: ENEE 3560 and 4540. An introduction to optoelectronic communication and sensing systems and components. A study of the fundamentals of optical generation, detection, modulation in semiconductor lasers, detectors and the modulators, transmission and processing of optical beam signals in dielectric waveguides and optical fiber, and fiber optic sensors.
- ENEE 6570 Optimization Techniques in Engineering** 3 cr.  
Prerequisite: A B.S. degree in engineering mathematics or physics or consent of department. Introduction to the formulation of engineering optimization problems. The use of nonlinear optimization techniques such as Steepest Descent, Newton-Raphson, and Conjugate Gradients and Constrained Nonlinear Optimization Techniques in engineering problems. Geometric programming in engineering problems.
- ENEE 6575 Advanced Telecommunications Systems Design** 3 cr.  
Prerequisite: BS degree in Engineering or consent of the department. The objective of this course is to provide graduate level engineering students with a detailed understanding of the design techniques and analyses associated with the design of digital data and voice systems employing microwave satellite cellular and PCS technologies. The course also investigates the fundamentals and design approaches for telecommunications networking hierarchies (ATM, SONET) and specialized architectures used in local area, wide area, and global networks.
- ENEE 6581 Digital Image Processing** 3 cr.  
Prerequisite: ENEE 4535/G and ENEE 4581/G or consent of department. Digital image processing techniques for compression, analysis and representation. Image compression and coding (discrete cosine transform, discrete Karhunen-Loeve transform, entropy-based compression, vector quantization, transform coding, predictive coding), image compression standards (JPEG, JPEG2000), image segmentation, texture analysis, shape descriptors, fundamentals of pattern recognition.
- ENEE 6582 Computer Vision** 3 cr.  
Prerequisite: B.S. in Engineering, Math, or Physics, or consent of the department. Basic fundamentals and techniques of computer vision, including image analysis, image segmentation, edge detection, and determination of shape from shading.

- ENEE 6583 Neural Networks** 3 cr.  
Prerequisite: B.S. in Engineering, Math, or Physics, or consent of the department. Introduction to the ideas and techniques used in artificial neural network models.
- ENEE 6585 Wireless Sensor Networks** 3 cr.  
Review of current wireless communication standards and protocols; system architecture of wireless sensor networks, including physical, medium access control (MAC), and network layers; algorithm design and practical implementation issues for wireless sensor networks applications.
- ENEE 6588 Optical Computing** 3 cr.  
Prerequisite: Graduate standing in engineering or science of consent of department. The topics include basic mathematical operations, matrix-vector and matrix-matrix multiplications, spatial light modulators, waveguides, and symbolic substitution.

## English

The completion of English 1158 is required of all students and is prerequisite to all courses. To be eligible for English courses numbered 3000 to 4999, students must have completed 45 hours of coursework, including six hours of literature courses in the English Department, numbered from 2000 to 2999. English 2238 and 2248 or English 2341 and 2342 are commonly taken by non-English majors to fulfill this requirement. For superior students, honors sections are usually available in English 1158, 2238, and 2248. These are numbered 1159, 2239, and 2249.

There are three possible grades in English courses numbered below 1000: P, U, and F. P denotes satisfactory completion of the course. U denotes unsuccessful participation and is given to the student who attends class regularly but does not pass. F denotes non-participation and is given to the student who does unsatisfactory work and is absent for the equivalent of more than two weeks.

- ENGL 100 Intensive English for International Students** 6 cr.  
Prerequisite: Placement through UNO English Placement Exam or from Intensive English Language Program. An intensive composition course for students whose native language is not English. Six class hours per week. ENGL 100 may not be counted for fulfillment of degree requirements.
- ENGL 150 Developmental English** 3 cr.  
Offered each semester. An intensive course designed to introduce students to the fundamentals of college writing. English 150 may not fulfill any degree requirement. NOTE: On the basis of the UNO Placement Test or previous college English (if any), students will be required to take one, two, three, or four semesters of freshman composition, including Developmental English. Only two credit courses may count toward any degree program. The required courses must be taken progressively, but in rare cases of exceptional progress, students completing 150 may be permitted to skip 1156 and/or 1157; such students are eligible for by-pass credit in English 1156 and/or 1157 under the procedure used for advanced placement credit for courses by-passed.
- ENGL 181 Elementary Intensive English as a Second Language** 6 cr.  
Prerequisite: ESL Placement Test. An intensive elementary-level course for students whose native language is not English. Thirteen class hours per week. ENGL 0181-0182 may not be counted for fulfillment of degree requirements.
- ENGL 182 Elementary Intensive English as a Second Language** 3 cr. min./12 cr. max.  
Prerequisite: ESL Placement Test. An intensive elementary-level course for students whose native language is not English. Thir-

teen class hours per week. ENGL 0181-0182 may not be counted for fulfillment of degree requirements.

- ENGL 183 Intermediate Intensive English as a Second Language** 6 cr.  
Prerequisite: ESL Placement Test or completion of 0181-0182. An intensive intermediate-level course for students whose native language is not English. Thirteen class hours per week. ENGL 0183-0184 may not be counted for fulfillment of degree requirements.
- ENGL 184 Intermediate Intensive English as a Second Language** 3 cr. min./12 cr. max.  
Prerequisite: ESL Placement Test or completion of 0181-0182. An intensive intermediate-level course for students whose native language is not English. Thirteen class hours per week. ENGL 0183-0184 may not be counted for fulfillment of degree requirements.
- ENGL 185 Advanced Intensive English as a Second Language** 6 cr.  
ESL Placement Test or completion of 0183-0184. An intensive advanced level course for students whose native language is not English. Thirteen class hours per week. ENGL 0185-0186 may not be counted for fulfillment of degree requirements.
- ENGL 186 Advanced Intensive English as a Second Language** 12 cr.  
ESL Placement Test or completion of 0183-0184. An intensive advanced level course for students whose native language is not English. Thirteen class hours per week. ENGL 0185-0186 may not be counted for fulfillment of degree requirements.
- ENGL 187 Semi-Intensive English as a Second Language** 6 cr.  
ESL Placement Test or completion of 0186. A semi-intensive course for students whose native language is not English. Six class hours per week. ENGL 0187 may not be counted for fulfillment of degree requirements.
- ENGL 188 English as a Second Language** 3 cr.  
Prerequisite: ESL Placement Test or completion of ENGL 0185-0186. A composition course designed for students whose native language is not English. Upon completion of ENGL 0188, a student may go on to ENGL 0189 or a higher course in some cases; upon completion of ENGL 0189, a student may go on to ENGL 0150, 1157, 1158, or 1159, depending upon his or her degree of proficiency in composition. Neither ENGL 0188 nor ENGL 0189 may be counted for fulfillment of degree requirements.
- ENGL 189 English as a Second Language** 3 cr.  
Prerequisite: ESL Placement Test or completion of ENGL 0185-0186. A composition course designed for students whose native language is not English. Upon completion of ENGL 0188, a student may go on to ENGL 0189 or a higher course in some cases; upon completion of ENGL 0189, a student may go on to ENGL 0150, 1157, 1158, or 1159 depending upon his or her degree of proficiency in composition. Neither ENGL 0188 nor ENGL 0189 may be counted for fulfillment of degree requirements.
- ENGL 191 Effective Speaking for International Graduate Students** 3 cr.  
Prerequisite: Placement by ESL Placement Test or by English Department. A non-intensive course in speaking designed specifically for graduate students whose first language is not English. Special emphasis is given to academic presentation skills, pronunciation, and nonverbal communication.
- ENGL 192 Effective Writing for International Graduates** 3 cr.  
Prerequisites: Placement by ESL Placement Test or English Department. A non-intensive course in report writing designed specifically for graduate students whose first language is not English.

Special emphasis is given to writing problem-solution texts, data commentaries, summaries, critiques, and research papers.

**ENGL 230 Reading Improvement** 3 cr.

Designed to train students in college-level reading. The entire reading process will be explored and applied through group interaction and individualized reading instruction. Three hours of lecture and one hour of laboratory work per week will be required. ENGL 0230 may not be counted for fulfillment of degree requirements. NOTE: This course will be required of certain students on the basis of the ACT test and additional reading tests. It is also available as an elective to all students.

**ENGL 1156 English Composition** 3 cr.

Each course offered each semester. An introductory sequence of writing courses. On the basis of the UNO Placement Test or previous college English (if any), students will be grouped and required to take one, two, or three semesters of freshman composition. The required courses must be taken progressively, but in cases of exceptional progress, students completing 1156 may be permitted to skip 1157; such students are eligible for by-pass credit in English 1157 provided they earn a C or better in 1158. Students who enter 1158 or 1159 initially thus take only one semester of freshman composition and may proceed without delay to any 2000-level course for which they have the necessary prerequisites. (1159 is the honors section of 1158.) In order to receive credit for 1158, students must pass a proficiency examination at the end of the semester. NOTE: Students may use up to 6 hours of composition credit towards their degrees.

**ENGL 1157 English Composition** 3 cr.

Each course offered each semester. An introductory course in writing largely expository accompanied by selected readings. ENGL 0150 may not be counted for fulfillment of degree requirements. NOTE: On the basis of the UNO Placement Test or previous college English (if any) students will be grouped and required to take one two or three semesters of freshman composition. The required courses must be taken progressively but in rare cases of exceptional progress students completing 0150 may be permitted to skip 1157; such students are eligible for by-pass credit in ENGL 1157 under the procedure used for advanced placement credit for courses bypassed. Students who enter 1158 or 1159 initially thus take only one semester of freshman composition and may proceed without delay to any 2000-level course for which they have the necessary prerequisites. (1159 is the honors section of 1158.) In order to receive credit for 1158 students must pass a proficiency examination at the end of the semester.

**ENGL 1158 English Composition** 3 cr.

Each course offered each semester. An introductory course in writing largely expository accompanied by selected readings. ENGL 0150 may not be counted for fulfillment of degree requirements. NOTE: On the basis of the UNO Placement Test or previous college English (if any) students will be grouped and required to take one two or three semesters of freshman composition. The required courses must be taken progressively but in rare cases of exceptional progress students completing 0150 may be permitted to skip 1157; such students are eligible for by-pass credit in ENGL 1157 under the procedure used for advanced placement credit for courses bypassed. Students who enter 1158 or 1159 initially thus take only one semester of freshman composition and may proceed without delay to any 2000-level course for which they have the necessary prerequisites. (1159 is the honors section of 1158.) In order to receive credit for 1158 students must pass a proficiency examination at the end of the semester.

**ENGL 1159 English Composition** 3 cr.

Each course offered each semester. An introductory course in writing largely expository accompanied by selected readings. ENGL 0150 may not be counted for fulfillment of degree requirements. NOTE: On the basis of the UNO Placement Test or previous college English (if any) students will be grouped and required to take one two or three semesters of freshman composition. The required courses must be taken progressively but in rare cases of exceptional progress students completing 0150 may be permitted to skip 1157; such students are eligible for by-pass credit in ENGL 1157 under the procedure used for advanced placement credit for courses bypassed. Students who enter 1158 or 1159 initially thus take only one semester of freshman composition and may proceed without delay to any 2000-level course for which they have the necessary prerequisites. (1159 is the honors section of 1158.) In order to receive credit for 1158 students must pass a proficiency examination at the end of the semester.

**ENGL 2020 Special Studies in Literature** 3 cr.  
One-Time Waiver

**ENGL 2031 Survey of American Literature before the Civil War** 3 cr.  
Required of English majors.

**ENGL 2032 Survey of American Literature after the Civil War** 3 cr.  
Required of English majors.

**ENGL 2041 Major American Writers** 3 cr.  
A study of works of important authors from 1600 to the present. Intended for non-English majors.

**ENGL 2043 New Orleans Literature** 3 cr.  
This course covers selected literary works set in New Orleans.

**ENGL 2071 African-American Literature I** 3 cr.  
Writings of African-Americans to 1939.

**ENGL 2072 African-American Literature II** 3 cr.  
Writings of African-Americans since 1939.

**ENGL 2151 Introduction to Non-Fiction Writing** 3 cr.  
The theory and practice of exposition, description, and narration.

**ENGL 2152 Technical Writing** 3 cr.  
Not open to freshmen without consent of department. A course designed primarily for students in science and engineering: the various forms of expository writing, with special emphasis on the preparation of reports or technical papers.

**ENGL 2153 Business Writing** 3 cr.  
A course in writing business documents of many different genres for instrumental business purposes and for various business and public audiences.

**ENGL 2154 Introduction to Creative Nonfiction Writing** 3 cr.  
Prerequisite: ENGL 2218; 2258; or consent of department. An introduction to the basic forms, techniques, and subgenres of creative nonfiction writing, including personal essays, literary journalism, profiles, memoir, writing about the natural world, travel writing, and others.

**ENGL 2155 Introduction to Professional Writing** 3 cr.  
An introduction to the basic forms and techniques of professional writing disciplines (such as technical writing, journalism, business writing, technical and professional editing) as well as basic rhetorical principles.

**ENGL 2161 Introduction to Fiction Writing** 3 cr.  
Prerequisite: ENGL 2238 or 2239; 2258; or consent of department. An introduction to the basic forms and techniques of fiction writing.

<b>ENGL 2163 Introduction to Poetry Writing</b>	<b>3 cr.</b>	<b>ENGL 2371 Classics of Western Literature I</b>	<b>3 cr.</b>
Prerequisite: ENGL 2228 or 2229; 2258; or consent of department. An introduction to the basic forms and techniques of poetry writing.		A study of Greek and Latin literature in translation. This course will acquaint the student with major classical works and their influence on English and American literature. The course will include works by Homer, Aeschylus, Sophocles, Euripides, Plato, Virgil, Horace, Catullus, Juvenal, and Ovid.	
<b>ENGL 2199 Independent Work for Honors Students</b>	<b>1 cr.</b>	<b>ENGL 2372 Classics of Western Literature II</b>	<b>3 cr.</b>
<b>ENGL 2208 Reading Drama</b>	<b>3 cr.</b>	Prerequisite: three hours of literature courses numbered 2000 or above or consent of department. A study of European literature in translation. This course will acquaint the student with major French, Spanish, Italian, German, and Russian works and their influence on English and American literature.	
Offered each semester. A general introduction to the study and appreciation of drama.		<b>ENGL 2374 Asian Literature</b>	<b>3 cr.</b>
<b>ENGL 2218 Reading Creative Nonfiction Literature</b>	<b>3 cr.</b>	An introductory survey of Asian literature in translation. The course will acquaint the student with major works of India, China, and Japan stressing their influence on the themes and genres of contemporary Western literature.	
A general introduction to the study and appreciation of creative nonfiction literature.		<b>ENGL 2375 Asian American Literature</b>	<b>3 cr.</b>
<b>ENGL 2228 Reading Poetry</b>	<b>3 cr.</b>	An introduction to the literary works of Asian Americans, including those of Chinese, Japanese, Korean, Filipino, Vietnamese, Indonesian, and South Asian descent.	
Offered each semester. A general introduction to the study and appreciation of poetry.		<b>ENGL 2376 Introduction to Lesbian and Gay Literature</b>	<b>3 cr.</b>
<b>ENGL 2229 Introduction to Poetry</b>	<b>3 cr.</b>	An introductory survey of representative works by lesbian and gay writers.	
Usually available in alternating spring semesters. An Honors section of the general introduction to the study and appreciation of poetry. (A student may not receive credit for both English 2228 and 2229.)		<b>ENGL 2377 The Bible as Literature</b>	<b>3 cr.</b>
<b>ENGL 2238 Reading Fiction</b>	<b>3 cr.</b>	A study of selections from the Old and New Testaments.	
Offered each semester. A general introduction to the study and appreciation of fiction.		<b>ENGL 2378 Introduction to Women's Literature</b>	<b>3 cr.</b>
<b>ENGL 2239 Introduction to Fiction</b>	<b>3 cr.</b>	An introductory survey of representative works in diverse literary forms by women from a wide variety of backgrounds and cultures with a focus on the idea of difference in women's writings and consider their relation to issues of class race sexual orientation and social context.	
Usually available in the fall semester. An Honors section of the general introduction to the study and appreciation of fiction. (A student may not receive credit for both English 2238 and 2239.)		<b>ENGL 2391 Independent Work</b>	<b>1 cr.</b>
<b>ENGL 2258 Interpreting Literature</b>	<b>3 cr.</b>	Prerequisite: Consent of the department. Reading, conferences, and reports under the direction of a member of the English faculty.	
An intensive course in writing about various literary genres, designed to sharpen literary skills. Required for English majors.		<b>ENGL 2392 Independent Work</b>	<b>1 cr.</b>
<b>ENGL 2279 The Literature of Ancient Greece</b>	<b>3 cr.</b>	Prerequisite: Consent of the department. Reading, conferences, and reports under the direction of a member of the English faculty.	
Open only to honors students concurrently enrolled in A&S 1119. An intensive writing course on art, literature, and philosophy of Ancient Greece.		<b>ENGL 2393 Independent Work</b>	<b>1 cr.</b>
<b>ENGL 2282 An Introduction to Linguistics and English Usage</b>	<b>3 cr.</b>	Prerequisite: Consent of the department. Reading, conferences, and reports under the direction of a member of the English faculty.	
An introduction to basic linguistic concepts and an examination of levels of usage and notions of correctness as they relate to pronunciation, grammar, and vocabulary.		<b>ENGL 2398 Special Studies in Literature and Language</b>	<b>3 cr.</b>
<b>ENGL 2284 A Survey of New Orleans English</b>	<b>3 cr.</b>	Reading, evaluation, and discussion of selected writers works or literary topics. May be repeated once for credit.	
A survey of the nature and role of regional, social, and ethnic language varieties through an intensive examination of the main phonological, lexical, idiomatic, and grammatical features of New Orleans English.		<b>ENGL 2399 Independent Work for Honors Students</b>	<b>1 cr.</b>
<b>ENGL 2299 Independent Work for Honors Students</b>	<b>1 cr.</b>	<b>ENGL 2521 Introduction to Shakespeare</b>	<b>3 cr.</b>
<b>ENGL 2311 American Film as Literary Art</b>	<b>3 cr.</b>	Students read a selection of Shakespeare's more popular plays and may view performances as well.	
An introduction to the literary art of American film based on representative classics. A laboratory fee is required.		<b>ENGL 2915 The Post World War II Novel</b>	<b>3 cr.</b>
<b>ENGL 2312 International Film As Literary Art</b>	<b>3 cr.</b>	A study of important contemporary novels.	
An introduction to the literary art of film based on representative international films. Completion of ENGL 2311 is recommended. A laboratory fee is required.		<b>ENGL 3394 Seminar in English</b>	<b>3 cr.</b>
<b>ENGL 2341 A Survey of British Literature from the Beginning to the Later Eighteenth Century</b>	<b>3 cr.</b>	Prerequisite: ENGL 2258. A survey of contemporary critical approaches to literature through the in-depth study of a single author, literary theme, or topic.	
This course is open to all students; it is required for English majors.		<b>ENGL 3399 Senior Honors Thesis</b>	<b>3 cr.</b>
<b>ENGL 2342 A Survey of British Literature from the Romantics to the Present</b>	<b>3 cr.</b>	Prerequisite: consent of department and the director of the Honors Program. Directed research culminating in a written thesis to meet the requirements for graduation with Honors in English and if appropriate University Honors. Upon petition three hours of related	
This course is open to all students; it is required for English majors.			

- course work in advanced English may be credited toward the thesis. May be repeated once for credit.
- ENGL 3595 Academic Year Abroad: Special Topics in English** 3 cr.  
This course is offered only through UNO's Academic Year Abroad (AYA) in Innsbruck, Austria, and can be repeated once for credit.
- ENGL 4030/G Colonial & Early National American Literature** 3 cr.  
A study of American literature from the beginnings to 1820.
- ENGL 4031/G The American Renaissance** 3 cr.  
A study of American literature from 1820 to the Civil War.
- ENGL 4032/G American Realism and Naturalism** 3 cr.  
A study of American literature from the Civil War to 1910.
- ENGL 4033/G American Modernism** 3 cr.  
A study of American literature from 1910 to 1950.
- ENGL 4034/G Contemporary American Literature** 3 cr.  
A study of American literature from 1950 to the present.
- ENGL 4043/G New Orleans Literature** 3 cr.  
A survey of the literature of New Orleans within regional contexts.
- ENGL 4045/G Southern Literature** 3 cr.  
The literature of the American South surveyed from its colonial origins to the present, with special attention to the major figures.
- ENGL 4070/G Special Topics in Women, Literature and Society** 3 cr.  
(WGS/WS 4070, ENGL 4070 and SOC 4070 are cross-listed) Prerequisite: ENGL 2378 or SOC 1051 or WGS/WS 2010 or consent of instructors. A team-taught, interdisciplinary study of women in literature and society. Variable topics include women and crime, women and work, women and the family, women and religion.
- ENGL 4091/G American Movements and Genres, 1500-1860** 3 cr.  
Discussion of one American literary movement or genre. May include film. Topic may vary from semester to semester. May be repeated once for credit with different topic, with consent of department.
- ENGL 4092/G American Movements and Genres, 1860-present** 3 cr.  
Discussion of one American literary movement period or genre. May include film. Topic may vary from semester to semester. May be repeated once for credit with different topic, with consent of department.
- ENGL 4093/G Studies in Black Literatures** 3 cr.  
Topic will vary from semester to semester. May be repeated once for credit.
- ENGL 4151/G Modern Composition: Theory and Practice** 3 cr.  
Prerequisite: ENGL 2151 or consent of department. Intensive study and practice in recent applications of traditional rhetorical modes.
- ENGL 4152/G Technical Editing and Reporting** 3 cr.  
A detailed examination of important aspects of technical communication: technical editing, formal proposal writing, formal report writing, instruction manuals, and technical graphics.
- ENGL 4154/G Advanced Creative Non-Fiction Writing** 3 cr.  
Prerequisite: ENGL 2154 or consent of department based on a writing sample. Guided practice in writing creative nonfiction and a close, intensive study of the techniques involved. (May be repeated once for credit.)
- ENGL 4155/G Professional Editing** 3 cr.  
A practical course dealing with the techniques of professional editing of nontechnical material.
- ENGL 4158/G Legal Writing** 3 cr.  
A practical course dealing with the techniques of legal writing, the skills of composition appropriate to the special needs of lawyers and others in the legal professions.
- ENGL 4161/G Advanced Fiction Writing** 3 cr.  
Prerequisite: ENGL 2161 or consent of department based on a writing sample. Guided practice in writing fiction and a close, intensive study of the techniques involved. May be repeated once for credit.
- ENGL 4163/G Advanced Poetry Writing** 3 cr.  
Prerequisite: ENGL 2163 or consent of department based on a writing sample. Guided practice in writing poetry and a close, intensive study of the techniques involved. May be repeated once for credit.
- ENGL 4230/G Literary Sources of the Western Tradition** 3 cr.  
A survey of the principal mythological influences on Western literature.
- ENGL 4231/G Literary Criticism** 3 cr.  
A study of some of the more important literary critics, ancient and modern.
- ENGL 4240/G Adolescent Literature** 3 cr.  
(ENGL 4240 and EDLS 4200 are cross listed). A survey of books and materials appropriate for use with the adolescent reader. Emphasis will be placed on selection and discussion of books for today's teenagers. This course can be used to satisfy general degree requirements in literature for upper elementary education students only. English majors may not use this course toward the requirements for the major.
- ENGL 4280/G General Linguistics** 3 cr.  
Prerequisite: ENGL 2282 or consent of department. A study of modern linguistic theory and universal grammar. Attention will be given to historical and geographical linguistics and to the linguistic structure of non-Western languages.
- ENGL 4281/G History of the English Language** 3 cr.  
The development of the language from Old English times to the Modern English period.
- ENGL 4282/G Contemporary English Language** 3 cr.  
The structure of the English language and its application in the classroom.
- ENGL 4283/G Regional Varieties of English in the Americas** 3 cr.  
A survey of the regional dialects of North America and the Caribbean.
- ENGL 4284/G The Study of Social Dialects** 3 cr.  
An investigation of the presently developing principles and methods of studying nonstandard English, with some exploration of the ways in which such principles and methods might apply to the study of New Orleans social dialects. Some field work will be required.
- ENGL 4285/G Second Language Acquisition** 3 cr.  
Prerequisite: ENGL 2282, 4280 or 4282 or consent of instructor. An introduction to the theory of acquiring a second language as it pertains to children and adults.
- ENGL 4286/G Language and Gender** 3 cr.  
Prerequisite: ENGL 2282 or permission of the instructor. This course focuses on the linguistic and socio-cultural dimensions of language use by women and men while introducing students to the theory and practice of data-based language description.
- ENGL 4370/G Studies in the Bible** 3 cr.  
Advanced work in applying the methods of literary criticism to biblical texts. Topics will vary from semester to semester.

- ENGL 4376/G Lesbian and Gay Studies in Literature** 3 cr.  
This course offers advanced work in lesbian and gay critical theories and their application to literature.
- ENGL 4378/G Advanced Studies in Women and Literature** 3 cr.  
Advanced work in feminist critical theories and their application to fictional and non-fictional literature. May be repeated once for credit with different topic.
- ENGL 4380/G Studies in Irish Literature** 3 cr.  
A study of a single literary movement, period, or genre in Irish literature. Topic may vary from semester to semester. May be repeated once with different topic, by consent of department.
- ENGL 4390/G Comparative Studies** 3 cr.  
A course that applies the aims and methods of comparative studies to a topic in focusing on literature across national boundaries and/or in relation to other arts and disciplines. Topics will vary. May be repeated once for credit with a different topic.
- ENGL 4391/G Special Topics in Language and Literature** 3 cr.  
Prerequisite: consent of department. Topic will vary from semester to semester. May be repeated once for credit.
- ENGL 4392/G Independent Topics** 1 cr.  
Prerequisite: consent of department. Reading, discussions, and reports under the direction of a member of the English faculty. This course may be repeated but total credit may not exceed four semester hours.
- ENGL 4398/G Internship in English** 3 cr.  
Prerequisite: consent of department. A course emphasizing writing skills in internships in local industrial, business, and government agencies. May be repeated once for credit by undergraduates only.
- ENGL 4401/G Literature of England in the Later Middle Ages** 3 cr.  
Readings in the works of Langland, Gower, Malory, and the "Pearl Poet" and in other works of the period between 1100 and 1500.
- ENGL 4421/G Chaucer** 3 cr.  
The Canterbury Tales.
- ENGL 4501/G English Literature of the Sixteenth Century** 3 cr.  
A survey of the prose and verse of the earlier Renaissance in England including works by Thomas More, Wyatt, Surrey, Sidney, Spenser, Marlowe, Raleigh, and Shakespeare.
- ENGL 4516/G The Beginning of the English Drama** 3 cr.  
The development of English drama to Shakespeare.
- ENGL 4521/G Shakespeare** 3 cr.  
The earlier plays, their background, with some attention to Shakespeare's life and time.
- ENGL 4522/G Shakespeare** 3 cr.  
The later plays, with particular emphasis on the author's development.
- ENGL 4601/G English Literature of the Seventeenth Century, 1600-1660** 3 cr.  
A survey of the literature of the later Renaissance in England, including works by the major prose writers and by the metaphysical, Cavalier, and devotional poets: Bacon, Hobbes, Donne, Jonson, Herrick, Herbert, Milton, and Marvell.
- ENGL 4616/G Drama of the Age of Shakespeare** 3 cr.  
Shakespeare's contemporaries and immediate successors to 1642.
- ENGL 4621/G Milton** 3 cr.  
A study of the poems with emphasis on *Paradise Lost*, *Paradise Regained*, and *Samson Agonistes* and an examination of various prose works.
- ENGL 4701/G Restoration and Early Eighteenth Century Literature** 3 cr.  
Prose and poetry from the Restoration to the death of Pope with emphasis on Dryden, Pope, and Swift.
- ENGL 4702/G Later Eighteenth Century Literature** 3 cr.  
Prose and poetry from the death of Pope to 1798 with emphasis on Johnson and his circle.
- ENGL 4715/G The Eighteenth Century English Novel** 3 cr.  
A study of the development and characteristics of the English novel from its beginnings through the time of Austen.
- ENGL 4716/G Restoration and Eighteenth Century English Drama** 3 cr.  
A study of English drama from the later seventeenth century to the end of the eighteenth century with some attention to developments in staging.
- ENGL 4801/G Prose and Poetry of the Early Romantic Period** 3 cr.  
Writers of the pre-romantic period; Blake, Wordsworth, Coleridge, and other writers of the period.
- ENGL 4802/G Later Romantic Writers** 3 cr.  
Emphasis on Byron, Shelley, and Keats with some attention to such FORLprose writers as DeQuincey and Hazlitt.
- ENGL 4807/G Earlier Victorian Literature** 3 cr.  
Tennyson, Browning, Macaulay, Carlyle, and their contemporaries.
- ENGL 4808/G Later Victorian Literature** 3 cr.  
Arnold, Swinburne, Morris, Rossetti, Pater, Stevenson, and contemporaries to 1900.
- ENGL 4815/G The Nineteenth Century English Novel** 3 cr.  
A study of the English novel from Austen to Conrad.
- ENGL 4913/G Early Twentieth Century Poetry** 3 cr.  
Modern English and American poetry to 1945.
- ENGL 4914/G Contemporary Poetry** 3 cr.  
English and American poetry since 1945.
- ENGL 4915/G The Modern Novel** 3 cr.  
A study of the novel from 1900 to 1945.
- ENGL 4916/G Twentieth Century Drama** 3 cr.  
Modern and Contemporary European, English, and American Drama.
- ENGL 4917/G The Contemporary Novel** 3 cr.  
A study of the novel since 1945.
- ENGL 4918/G Creative Nonfiction Literature** 3 cr.  
A study of creative nonfiction literature, including such subgenres as personal essays, literary journalism, profiles, writing about the natural world, travel writing and memoir.
- ENGL 6001 Studies in American Literature Before 1865** 3 cr.
- ENGL 6007 Studies in American Literature Since 1865** 3 cr.
- ENGL 6090 Special Studies in American Literature** 3 cr.
- ENGL 6150 Writing Project Workshop** 3 cr.  
A workshop in advanced writing.
- ENGL 6151 Writing Institute** 3 cr. min./6 cr. max.  
(EDCI 6020 and ENGL 6151 are cross-listed) Offered during the summer session only. An invitational workshop designed for teachers interested in improving writing, theirs and their students'. An intensive exploration of the research and practice in the field. Section number will correspond with credit to be earned.



in mineral law systems calling special attention to the Louisiana property concept will be studied in order to give the engineer a background against which to study and better understand the Mineral Code and its provisions. Fundamental laws and Federal OCS oil and gas regulation and compliance requirements will also be covered.

**ENGR 7000 Thesis Research** 1 cr. min./9 cr. max.  
To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.

**ENGR 7040 Examination or Thesis Only** 0 cr.  
No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduate requirements.

## **Mechanical Engineering**

**ENME 1781 Computer Aided Engineering Graphics** 3 cr.  
Prerequisite: MATH 1126 or consent of department. An introduction to conventional engineering graphics with emphasis on current computer techniques; isometric and orthographic projection; orthographic sketching; sectional views; points, lines, planes; surface intersections and developments; revolved, primary, and secondary views.

**ENME 2711 Structures and Properties of Materials Laboratory** 1 cr.  
Prerequisite: credit or registration in ENME 2740. Demonstrative and participative experiments supplementing ENME 2740 to provide a better understanding of the properties of engineering materials. Three hours of laboratory.

**ENME 2740 Structure and Properties of Materials** 3 cr.  
Prerequisites: CHEM 1014 or 1017 and PHYS 1061. Introduction to the structure and formation of metals, alloys, and polymeric materials and their chemical, electrical, mechanical, and thermodynamical properties; surface structures and their observation, using a metallograph and selected microscopes.

**ENME 2750 Dynamics** 3 cr.  
Prerequisites: Civil Engineering 2350 and Mathematics 2112. Kinematics, kinetics, work and energy, impulse and momentum. Three hours of lecture and one hour of recitation.

**ENME 2785 Introduction to Computer Integrated Manufacturing Methods** 3 cr.  
Prerequisite: credit or registration in ENME 1781. An introduction to classical and automated manufacturing; including computer numerical control lathe and mill application, and assembly line application with robots.

**ENME 3020 Engineering Analysis** 3 cr.  
Prerequisites: MATH 2221; credit or registration in MATH 2115. Application of Laplace transforms, Fourier series, matrices, partial differential equations, probability/statistics to selected problems in Civil, Mechanical, and Naval Architecture and Marine Engineering.

**ENME 3092 Mechanical Engineering Design Project** 3 cr.  
Prerequisites: Junior standing and consent of department. Individual or team study and evolution of a project involving engineering. Comprehensive oral and written reports are required.

**ENME 3093 Special Problems in Mechanical Engineering** 1 cr.  
Prerequisite: Junior standing in engineering. Seminar, independent study, and research participation in mechanical engineering.

**ENME 3094 Special Problems in Mechanical Engineering** 1 cr.  
Prerequisite: Junior standing in engineering. Seminar, independent study, and research participation in mechanical engineering.

**ENME 3095 Special Problems in Mechanical Engineering** 1 cr.  
Prerequisite: Junior standing in engineering. Seminar, independent study, and research participation in mechanical engineering.

**ENME 3711 Thermal Sciences Laboratory** 1 cr.  
Prerequisites: credit in ENME 3771 or consent of department. A laboratory in engineering thermodynamics and heat transfer. Three hours of laboratory.

**ENME 3716 Fluid Mechanics Laboratory** 1 cr.  
Prerequisite: credit or registration in ENME 3720 or consent of department. A laboratory in engineering fluid mechanics and hydraulics. Three hours of laboratory.

**ENME 3720 Fluid Mechanics** 3 cr.  
Prerequisites: MATH 2221, ENME 2750 and credit or registration in ENME 3770 and MATH 2115. Fluid statics, concepts, principles, and methods of fluid motion, potential flow. Introduction to boundary layer; turbulence and drag; dimensional analysis and similitude.

**ENME 3733 Machine Design** 3 cr.  
Prerequisites: ENGL 2152, ENME 3734 and credit or registration in ENME 3735. Theory and practice of machine design applied to entire machines. Complete design including drawings, analysis, written report, and oral presentation are required.

**ENME 3734 Machine Elements** 3 cr.  
Prerequisites: ENCE 2351, ENME 2740 and credit or registration in ENME 2785. Application of engineering mechanics to the design and selection of machine elements. Fatigue. Working stresses. Failure theories.

**ENME 3735 Mechanism Design** 3 cr.  
Prerequisites: CSCI 1201 or 1205 and ENME 2750. Kinematic synthesis of mechanisms and dynamics of machinery; design of mechanisms to generate required point paths, functions, or transformations between modes of motion; translation to rotation; graphical, analytical, and computer-aided design methods.

**ENME 3755 Introduction to Mechanical Vibrations** 3 cr.  
Prerequisites: MATH 2221, ENME 2750 and concurrent registration in ENME 3020; or consent of department. Single and double degree of freedom systems in free and forced motion, lumped parameter analysis of continuous systems, and vibration measurement devices.

**ENME 3757 Introduction to Mechanical Control Systems** 3 cr.  
Prerequisites: ENME 2750, MATH 2221, and ENEE 2500; or consent of department. Mathematical modeling of mechanical systems; model linearization; methods of solution and simulation; basic notions of feedback control algorithms; transfer functions, frequency response, and system identification and stability.

**ENME 3761 Introduction to Nuclear Engineering** 3 cr.  
Prerequisites: credit or registration in PHYS 2064 and ENME 3770 or consent of department. Radiation decay; detection; protection and safety. Applications of radioactive isotopes; introduction to nuclear power, nuclear fuels, fuel cycle, and power plant design.

**ENME 3770 Engineering Thermodynamics** 3 cr.  
Prerequisites: Mathematics 2109 or 2112 and Physics 1062. Basic laws of thermodynamics; equilibrium; entropy; availability; flow and non-flow processes.

**ENME 3771 Heat Transfer** 3 cr.  
Prerequisites: MATH 2221, CSCI 1201, ENME 3720 and ENME 3770. Steady and unsteady conduction; natural and forced convection;

- radiation; heat exchangers; introduction to two-phase heat transfer. Computer-aided solutions to heat transfer problems.
- ENME 3772 Environmental Control Systems** 3 cr.  
Prerequisite: ENME 3771. The principles of heating, ventilating, air conditioning, and refrigeration; application to environmental control systems. Emphasis is on the selection of equipment and the design of various systems, including automatic controls.
- ENME 3773 Design of Thermal-Fluid Systems** 3 cr.  
Prerequisites: ENME 3770 and 3771 or consent of department. Design of thermal-fluid systems utilizing the principles of heat transfer, thermodynamics, and fluid mechanics with emphasis on practical, economical designs. Semester projects are assigned to student groups; weekly progress reports, final written and oral reports required.
- ENME 3776 Intermediate Engineering Thermodynamics** 3 cr.  
Prerequisite: ENME 3770. Application of principles of thermodynamics; vapor and gas cycles; internal combustion engines; steam and gas turbines, mixtures, thermodynamic relationships.
- ENME 3777 Energy Conversion** 3 cr.  
Prerequisite: ENME 3770. Direct energy conversion; magnetohydrodynamics; energy storage; vapor and gas cycles; applications and thermodynamic analysis; nuclear, hydrodynamic, solar, geothermal, and wind energy.
- ENME 3780 Introduction to Computer-Aided Mechanical Design** 3 cr.  
Prerequisites: CSCI 1201, ENME 3020 credit or registration in ENME 3731; or consent of department. An introduction to computing environments and underlying algorithms of computer-aided design. Topics include: graphical user interfaces, data interpolation, integration and differentiation, roots, systems of equations, simulation, optimization, graphics, and visualization.
- ENME 3785 Computer-Integrated Manufacturing Systems** 3 cr.  
Prerequisites: ENEE 2500 and credit or registration in ENME 2785 and ENME 3780. Automated manufacturing; system dynamics and controls of mechanical systems; robotic systems and their applications; numerical machine program generation from 3-D geometrical images.
- ENME 3900 Senior Honors Thesis** 1 cr. min./6 cr. max.  
Prerequisites: admission to the Honors Program and consent of the director of the Honors Program and the chair of the department. Senior-level research and/or design project in mechanical engineering. Thesis and oral examination required. May be repeated for credit with total hours not to exceed six.
- ENME 4023/G Intermediate Engineering Analysis** 3 cr.  
Prerequisites: MATH 2221 and ENME 3020. Application of complex variables; contour integration; conformal mapping; Cartesian tensors; non-linear differential equations; and selected problems in mechanical engineering.
- ENME 4096/G Special Topics in Mechanical Engineering** 3 cr.  
Prerequisite: junior standing in engineering. Course may be taken for credit three times. No student may earn more than nine hours degree credit in courses ENME 4096 and 4097.
- ENME 4097/G Special Topics in Mechanical Engineering** 3 cr.  
Prerequisite: junior standing in engineering. Course may be taken for credit three times. No student may earn more than nine hours degree credit in courses ENME 4096 and 4097.
- ENME 4720/G Intermediate Fluid Mechanics** 3 cr.  
Prerequisites: ENME 3720 and 3020 or consent of department. Study of the conservation equations governing viscous or inviscid flow of an incompressible fluid, and appropriate engineering approximation in engineering design. Introduction to numerical methods used to solve steady or unsteady viscous or inviscid, laminar, or turbulent flows.
- ENME 4721/G Gas Dynamics** 3 cr.  
Prerequisites: MATH 2221, ENME 3720 and 3770. Conservation laws, one-dimensional flow, stationary and propagating normal shocks, quasi-one-dimensional flow, Rayleigh line flow, Fanno line flow, oblique shocks, Prandtl-Meyer expansions.
- ENME 4722/G Design and Selection of Turbomachinery** 3 cr.  
Prerequisites: ENME 3720 and 3770 or consent of department. Analysis of the fluid flows through a turbomachine for compressible and incompressible flows. Determination of blading design and orientation for various types of turbomachines. Axial and radial flow machines, centrifugal pumps, fans, and compressors are included along with some experimentation with turbomachines.
- ENME 4723/G Ocean and Coastal Engineering** 3 cr.  
(ENCE 4723, ENME 4723, and NAME 4723 are cross-listed). Prerequisite: ENME 3720 or ENCE 3318 or consent of the department. Elements of wind and wave generation and forecasting, tidal phenomena, hurricanes, storm surge, tsunamis, interaction of waves and wind with coastal and offshore structures, coastal and estuary processes. Design aspects of various topics are discussed and analyzed: e.g., offshore structures, spar buoys, underwater pipelines, oil production risers, coastal protection, mooring cables, vortex shedding, gas flares, beach formation, harbor resonance, structure resonance, etc. A design project is required.
- ENME 4724/G Fluid Flow Systems** 3 cr.  
Prerequisite: ENME 3720 or consent of department. Properties of hydraulic fluids; hydraulic lines; pipe networks; principles and design of hydraulic and pneumatic control components and systems; fluid machinery.
- ENME 4725/G Incompressible Aerodynamics** 3 cr.  
Prerequisites: ENME 3020 and 3720. Basic phenomena of the external flow of incompressible fluid. Theoretical development of the lift of plane, cambered airfoils, and the lift and drag of the finite wing. Comparison and discussion of experimental values of lift and drag.
- ENME 4728/G Introduction to Computational Fluid Dynamics** 3 cr.  
(NAME 4728 and ENME 4728 are cross-listed.) Prerequisites: Mechanical Engineering 3720. Classification of partial differential equations, mathematical description of fluid flow phenomena. Survey of various discretization methods for the equations of fluid mechanics, including finite difference, finite volume and weighted residual methods. Basic algorithms for solving fluid mechanics problems. Introduction to grid generation. Application of existing CFD codes to practical engineering problems.
- ENME 4734/G Reliability, Availability, and Maintenance of Engineering Systems** 3 cr.  
(ENMG 4131, ENME 4734, and ENEE 4131 are cross-listed) Prerequisite: MATH 2115. Review of probability and statistics; analytical stochastic models for component and system failures; strategies for inspection, maintenance, repair and replacement. Introduction to fault-tree and event-tree analysis; frequency and duration techniques; Markov models; and case studies.
- ENME 4751/G Advanced Dynamics** 3 cr.  
Prerequisites: ENME 2750 and MATH 2221. Central force motion, three-dimensional kinetics, kinematics, and dynamics of rigid bodies; gyroscopic motion; Lagrange's equations; Hamilton's principle; and trajectories.

- ENME 4752/G Mechanical Systems Dynamics for Control** 3 cr.  
Prerequisites: ENME 2750, 3020 and ENEE 2500; or consent of department. Mathematical modeling of mechanical electrical and electromechanical systems. Model linearization. Computer simulation. Mathematical modeling of dynamic systems in state space. Linear systems analysis in the time/frequency domain. Introduction to feedback control systems.
- ENME 4753/G Process Control Systems** 3 cr.  
(ENEE 4534 and ENME 4753 are cross-listed) Prerequisites: ENEE 3533 or ENME 3020. A study of contemporary automatic control methods for continuous industrial processes. Topics include characterization of typical process dynamics, plant identification, parameter estimation, controller tuning techniques, and industrial process instrumentation applications.
- ENME 4757/G Intermediate Mechanical Vibrations** 3 cr.  
Prerequisite: ENME 3755 or consent of department. Fundamental phenomena of multi-degree discrete and continuous systems. Matrix methods of solution of discrete systems. Determination of natural frequencies and mode shapes of discrete and continuous systems. Methods of passive vibration control. Brief introduction to finite element methods.
- ENME 4770/G Design of Solar Heating and Cooling Systems** 3 cr.  
Prerequisite: credit or registration in ENME 3771 or consent of department. Availability and characteristics of solar energy; design performance and testing of flat plate and concentrating collectors; solar heating and cooling of buildings; air systems and water systems; storage systems; economics; typical designs; solar cells.
- ENME 4771/G Intermediate Heat Transfer** 3 cr.  
Prerequisite: ENME 3771 or consent of department. Review of basic modes of heat transfer; combined convection and radiation; boiling and condensation; introduction to numerical methods for solving heat transfer problems; application of heat transfer principles to related problems in engineering.
- ENME 4772/G Internal Combustion Engines** 3 cr.  
Prerequisites: ENME 3720 and 3776. Introduction of fundamental concepts and theories of internal combustion engines including ideal and real thermodynamic cycles, fuels, combustion, emissions, spark-ignition engines, and compression-ignition engines.
- ENME 4773/G Energy Management** 3 cr.  
Prerequisites: ENME 3720 and 3771 or consent of department. Technical elements of reducing energy consumption and costs; aspects of management and cost elements pertaining to engineering decision making; typical topics include electrical, utility, process, building and heating, ventilating and air conditioning systems; waste heat management and energy auditing.
- ENME 4774/G Gas Turbine Systems** 3 cr.  
Prerequisites: ENME 3720 and ENME 3776 Introduction to guiding principles in gas turbine cycles, combined power systems, turbine and compressor design procedures and performance prediction for both axial and radial flow turbines.
- ENME 4783/G Introduction to Robotics** 3 cr.  
Prerequisites: ENME 3735 or consent of department. Spatial description and transformations; forward kinematics; inverse kinematics; manipulator Jacobians; manipulator statics; and manipulator dynamics.
- ENME 6024 Boundary Value Problems** 3 cr.  
Prerequisite: ENME 4023 or consent of department. A unified study of the techniques available for the solution of boundary value problems of the types found in advanced engineering analysis. Application to representative problems from specific areas of engineering.
- ENME 6026 Mathematical Modeling in Continuum Mechanics** 3 cr.  
Prerequisite: ENME 3020 or consent of department. Principles of continuum mechanics. Types of mathematical models. Types of mathematical formulation, Rules for developing physical and mathematical models. Review of solution methods: analytical and numerical. Discussion of issues such as: uniqueness and exactness; accuracy, convergence, and error analysis; benchmarking and validation. Modeling of two domains with common interface. Modeling of domains with moving boundaries. Review of physics based mathematical models for various phenomena that are described by laws and constitutive relations of continuum mechanics.
- ENME 6028 Finite Element Methods in Engineering Analysis** 3 cr.  
Prerequisites: ENME 3020 or consent of department. Formulation and solution of the finite element method for solving a wide class of engineering problems in the fields of solid and fluid mechanics. Weighted residual techniques, variational methods, and isoparametric element formulations are covered. Applications include linear transient analyses and material and geometric non-linearities.
- ENME 6090 Research Seminar** 0 cr.  
Students, faculty, or invited guest speakers will present their research activities in the field of mechanical engineering and/or engineering sciences. Graduate students in the MS and PhD programs with concentration in mechanical engineering are expected to register in this seminar (once for MS and twice for PhD students.) Students are encouraged to enroll in this course during their last year of studies. Grades will be assigned on a S/U basis and attendance is necessary for an S grade. This course will be offered each semester and the class will meet weekly for one hour.
- ENME 6095 Advanced Mechanical Engineering Problems** 1 cr. min./6 cr. max.  
Individual projects in selected fields of mechanical engineering. Independent work under the direction of a faculty member on a subject of mutual interest. Student must find faculty sponsor. A written report will usually be required. Course may be repeated for credit but no more than a total of six credit hours may be applied toward a degree. Section number will correspond with credit to be earned.
- ENME 6096 Advanced Special Topics in Mechanical Engineering** 3 cr.  
Prerequisite: consent of department. Special lectures or independent study on subjects of current interest in the various fields of mechanical engineering. May be taken for credit three times. No student may earn more than a total of nine hours of degree credit in courses ENME 4096, 4097, 6096, 6097, 6098.
- ENME 6097 Advanced Special Topics in Mechanical Engineering** 3 cr.  
Prerequisite: consent of department. Special lectures or independent study on subjects of current interest in the various fields of mechanical engineering. May be taken for credit three times. No student may earn more than a total of nine hours of degree credit in courses ENME 4096, 4097, 6096, 6097, 6098.
- ENME 6098 Advanced Special Topics in Mechanical Engineering** 3 cr.  
Prerequisite: consent of department. Special lectures or independent study on subjects of current interest in the various fields of mechanical engineering. May be taken for credit three times. No student may earn more than a total of nine hours of degree credit in courses ENME 4096, 4097, 6096, 6097, 6098.

- ENME 6354 Theory of Elasticity** 3 cr.  
Prerequisites: ENCE 6353 or consent of department. Plane stress and plane strain; two-dimensional problems in rectangular and polar coordinates; strain energy methods; complex variables in two-dimensional problems; the general equations of three-dimensional elasticity.
- ENME 6355 Theory of Plates and Shells** 3 cr.  
(ENCE 6355 and ENME 6355 are cross-listed) Prerequisites: ENCE 6353 and MATH 2221. Laterally loaded plates with various boundary conditions; elastic stability of plates; differential geometry of surfaces; equilibrium and strain equations; membrane theory of shells; shells of revolution with emphasis on cylindrical and spherical shells.
- ENME 6356 Mechanics Of Composite Materials** 3 cr.  
Prerequisites: ENCE 6353 or consent of department. Analysis of stress, strain, and strength of fiber reinforced composite laminates. Topics include laminated plate theory, stress analysis of orthotropic plates, damage mechanisms, fatigue, impact, and environmental effects.
- ENME 6357 Fracture Mechanics** 3 cr.  
Prerequisite: ENME 6354 or 6355 or 6756 or consent of department. Stationary crack under static loading, energy balance and crack growth, crack initiation and growth, dynamic crack growth, fatigue, fracture of composite material.
- ENME 6362 Aerospace Composite Structures** 3 cr.  
Prerequisites: Mechanics of Materials or consent of the Department. Basic Theorems and principles in the theory of structures (strain energy, virtual displacement, minimum total potential energy), general theory of beams bending (warping, shear flow in multi-flanged beams), general theory of torsion (shear center, multi-cell structures), plane stress problems, with application to design of aerospace structures made of composite materials.
- ENME 6364 Advanced Composite Materials** 3 cr.  
Prerequisite: Consent of department. Thermal and Moisture Effects on Composite materials, Stress State of composite beams under long term loading, viscolastic displacement of beams, torsion of laminated beams. Optimum design of composite material structures, mechanics of sandwich structures.
- ENME 6720 Advanced Fluid Mechanics** 3 cr.  
Prerequisite: ENME 4720 or consent of department. Continuity; stream and potential function; irrotational flow; Laplace Euler and Bernoulli equations; standard patterns of flow; conformal transformations; Schwarz-Christoffel theorem; and vortex motion.
- ENME 6721 Advanced Gas Dynamics** 3 cr.  
Prerequisite: ENME 4721. Derivation of the differential conservation equations for inviscid flows; unsteady wave motion; acoustic theory; shock tube relations; linearized supersonic flow; numerical techniques for steady supersonic flow; and viscous compressible flow.
- ENME 6723 Boundary Layer Theory** 3 cr.  
Prerequisite: ENME 4720 or consent of department. Fundamental laws of motion for a viscous fluid; laminar boundary layer; transition and separation; and turbulent boundary layer.
- ENME 6724 Viscous Flow** 3 cr.  
Prerequisites: ENME 3720 or consent of department. Fundamental Equations of viscous fluid flow. Newtonian viscous flow, Stokes assumptions, and exact solutions to Navier-Stokes equations. Order of magnitude analysis. Similarity solution. Integral equations of viscous flow. Duct flow, free shear flow, creeping flows, and free convection flow. Introduction to flow instabilities and turbulence.
- ENME 6727 Turbulence** 3 cr.  
Prerequisites: ENME 3720 and 3020 or consent of department. Fundamental mechanics of turbulence, wakes, jets and plumes. Structure of time averaged flows, flow instability, Reynolds stresses, spectral dynamics, and scales of turbulence. First order models: algebraic, one-equation and two-equation models. Second order models, Reynolds stresses, multi-equation models.
- ENME 6728 Advanced Computational Fluid Dynamics (CFD)** 3 cr.  
Prerequisites: ENME 3720 and 3020, ENME 4728, and CSCI 1201, or consent of department. Numerical modeling of the equations of fluid mechanics. Equation classification, theory of characteristics. Survey of discretization methods: finite difference, finite volume, integral methods. Basic grid generation techniques. Stability analysis for finite difference equations. Discretization techniques applied to steady state and time dependent problems in multi-dimensions. Navier-Stokes equations, inviscid and viscous flow. Course will include projects to develop finite difference codes in areas relevant to student's research interests.
- ENME 6730 Multiphase Flow** 3 cr.  
Prerequisites: ENME 3720. Fundamentals of various physical interactions in flow systems involving more than one phase, including gas-solid, gas-liquid, liquid-solid, and three-phase interactions. Primary emphasis is placed on the fluid dynamics of particles, droplets, and bubbles suspended in a fluid. The effects of phenomena such as Brownian motion, Basset effect, Magnus effect, virtual or apparent mass effect, shear lift, surface charge, particle and droplet mobility, electro-phoresis, thermo-phoresis, photo-phoresis, and diffusion-phoresis are covered. Applications to multiphase system equipment and processes such as dust collectors, fluidized beds, aerodynamic ablation, xerography, atomizers, combustors, evaporation, droplet coalescence and break-up, cavitation, and aeration are highlighted.
- ENME 6753 Advanced Continuum Mechanics** 3 cr.  
Prerequisite: consent of department. Kinematics of motion and deformation; general development of balance equations of continuum mechanics; theory of constitutive equations; study of the constitutive equations for elastic, hyperelastic, viscoelastic, and plastic materials.
- ENME 6755 Advanced Vibrations** 3 cr.  
Prerequisite: ENME 4757. Lagrange's equations of motion and their application to vibration analysis; multi-degree of freedom systems; matrix methods; and transients.
- ENME 6756 Theory of Plasticity** 3 cr.  
Prerequisite: ENCE 6353 or consent of department. Stress and strain tensors; elastic stress-strain relations criteria of yielding; plastic stress-strain relations; elastoplastic problems of spheres and cylinders; the plane elastoplastic problem; the slip-line field.
- ENME 6758 Advanced Computational Methods in Solid Mechanics** 3 cr.  
Prerequisites: ENME 3020 or consent of department. Numerical methods for solving problems involving deformable solids. Variational methods including Galerkin, Rayleigh-Ritz, and other weighted residual techniques are covered. Finite difference, finite element, and boundary element techniques are presented.
- ENME 6770 Advanced Thermodynamics** 3 cr.  
Prerequisites: ENME 3770 or consent of department. Review of basic laws of classical thermodynamics. Reversible and irreversible processes. Second law analysis. Entropy and availability. Maxwell relations. Thermodynamics of mixtures, first and second law of reacting systems. Phase equilibrium. Introduction to statistical thermodynamics.

- ENME 6771 Conduction Heat Transfer** 3 cr.  
Prerequisite: ENME 4771 or consent of department. Conduction heat transfer; steady state and transient system; one-dimensional, two-dimensional, and three-dimensional systems.
- ENME 6772 Convection Heat Transfer** 3 cr.  
Prerequisites: ENME 4771 and 4720 or consent of department. Forced and free convection heat transfer in laminar and turbulent flow; condensation and evaporation; and special heat transfer processes.
- ENME 6773 Radiation Heat Transfer** 3 cr.  
Prerequisite: ENME 4771. Radiative heat exchange among specularly and diffusely reflecting surfaces; radiant interchange in participating media; combined radiation, conduction, and convection; and advanced topics.
- ENME 6774 Computational Heat Transfer** 3 cr.  
Prerequisites: ENME 3771 or consent of the department. Foundations of finite - difference and finite element methods. Classification of governing differential equations in heat transfer. Discrete approximations of derivatives. Methods of solving sets of algebraic equations, computational methods for steady state, parabolic, elliptic, and hyperbolic type of heat transfer problems. Non-linear heat transfer problems. Introduction to grid generation.

## Engineering Management

- ENMG 4130/G Change Management** 3 cr.  
Prerequisite: none except senior or graduate status and consent of department. This course is designed to provide techniques and principles as to how to introduce change into organizations. Emphasis will be on the three phases of change; initiating change, implementing change, and institutionalizing change. Means of applying change principles will be developed through the use of templates and worksheets.
- ENMG 4471/G Quality Management** 3 cr.  
(MANG 4471 and ENMG 4471 are cross-listed) Prerequisite: MANG 3402 or consent of department. May not receive graduate credit for both MANG/ENMG 4471 and MANG 6471. Describes the basic concepts of quality planning and quality control. Discussion on quality improvement plans, Deming philosophy, and Juran's quality trilogy, the Deming prize and Baldrige award for quality excellence, and quality circles. Study of the statistical approach to quality control and the use of control charts and other quality control tools. Case studies from around the world on the implementation of total quality management.
- ENMG 6090 Internship in Engineering Management** 1 cr.  
Prerequisite: Consent of department. Permits students to be engaged in at least 10 hours per week at the site of an assigned participating organization that directs interns in specific projects relating to engineering management. Students wishing to take this course should apply one semester in advance since enrollment is limited by internship availability.
- ENMG 6095 Engineering Management Capstone Project** 3 cr.  
(Open to Master's candidates in their final semester only.) Prerequisite: Consent of department. A study of business policies integrating the functions of all fields of business administration. The course is designed to give the student the top management viewpoint of the operation of the business enterprise. Strategy development and implementation are emphasized.
- ENMG 6096 Special Topics in Engineering Management** 1 cr. min./3 cr. max.  
Prerequisite: Consent of program. Special lectures or independent study on subjects of current interest in the various fields of engi-

neering management. No student may earn more than a total of nine hours of degree credit in these courses.

- ENMG 6097 Special Topics in Engineering Management** 1 cr. min./3 cr. max.  
Prerequisite: Consent of program. Special lectures or independent study on subjects of current interest in the various fields of engineering management. No student may earn more than a total of nine hours of degree credit in these courses.
- ENMG 6098 Special Topics in Engineering Management** 1 cr. min./3 cr. max.  
Prerequisite: Consent of program. Special lectures or independent study on subjects of current interest in the various fields of engineering management. No student may earn more than a total of nine hours of degree credit in these courses.
- ENMG 6101 Engineering Management I** 3 cr.  
Prerequisite: Baccalaureate degree in Engineering or consent of department. An overview of the basic tools for management of a quality engineering project or group. Includes principles of Finance and Accounting, use of Management Information Systems in analysis and projecting, and effective communication, both within engineering and to those outside the engineering function.
- ENMG 6102 Engineering Management II** 3 cr.  
Prerequisite: B.S. in Engineering or consent of department. Basic concepts of ethical and legal aspects of engineering management are reviewed, including a review of court systems, contracts, torts, agency and business entity formation. Additionally, human resources management in areas such as hiring, promotions, and staffing will be reviewed. Basic precepts of Total Quality Management are also presented.
- ENMG 6111 Quantitative Analysis of Engineering Management I** 3 cr.  
Prerequisite: B.S. in Engineering or consent of department. Basic concepts of accounting, financial analysis, and economic analysis applied to problems confronting the engineer. Emphasis will be placed upon interpreting and using accounting and cost data in planning and projecting work, as well as analysis using financial and economic models.
- ENMG 6112 Quantitative Analysis of Engineering Management II** 3 cr.  
Prerequisite: consent of department. Use of statistical analysis and risk management principles in the decision making process. Emphasis will be upon probabilistic thinking and applying concepts of statistics and decision making models to uncertain decision making situation.
- ENMG 6120 Project Management** 3 cr.  
(ENCE 6390, ENMG 6120, and MANG 6472 are cross-listed) Prerequisite: consent of department. Encompasses project organization structure, project planning and control. Discussions will include performance analysis based on earned value. Emphasis will be given to project management information systems. Human behavior in the project setting will be discussed.
- ENMG 6130 Management of Technology Change** 3 cr.  
Prerequisite: ENMG 6101 or consent of department. Emphasis on techniques that are useful in successfully introducing change in technical organizations. The role of sponsors, advocates, targets, and agents. Change viewed as a process. Case studies are examined, when appropriate, but much of the learning is directed toward application of the principles of change to the students' organizations.

**ENMG 6140 Information Networks for the Technical Enterprise**

3 cr.

Prerequisite: Baccalaureate Degree in Engineering or consent of department. Engineering aspects of data transmission systems (networks) and their business applications. Hardware and software considerations for selecting a cost-effective network for business applications; database organization, network access, and security; and effective integration of the information system into a technical business environment. Post implementation management of a business oriented information network. Students will individually develop a proposed business information system for a hypothetical business.

**ENMG 6150 Systems Analysis, Development and Management**

3 cr.

Prerequisite: BS in Engineering, or consent of department. Emphasis of this course will be on the techniques that are required to deal with problems arising in complex human and technical systems. The role of systems thinking in problem solutions for companies, schools, and governments will be explored. The course is based on three complementary systems approaches; analysis of systems failures and catastrophes (a systems approach to failures), a systems approach to organizational decision-making (hard systems analysis), and a systems approach to organizational change (soft systems analysis).

**ENMG 6401 Seminar in Organizational Behavior**

3 cr.

(MANG 6401 and ENMG 6401 are cross-listed) Prerequisite: MANG 3401 or ENMG 6101 or consent of department. A study of organizational behavior across all levels of organizational life: the individual, interpersonal, group, organizational, and society. Problems to be discussed and dealt with include motivation, communications, leadership, group dynamics, power, organizational structures and design, and various types of environmental constraints including competition, markets, and governmental regulations. Lecture, discussion, and group problem-solving project reports are included in instructional methodology.

**ENMG 7000 Thesis Research**

1 cr. min./9 cr. max.

Prerequisite: Consent of department. To be repeated for credit until thesis is accepted. Section number will corresponding with credit to be earned.

**ENMG 7040 Examination or Thesis Only**

0 cr.

No credit. Prerequisite: Consent of department. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

**Fine Arts**

**FA 1005 Monuments of World Art**

3 cr.

Offered each semester. Open to all undergraduates. An introduction to the visual arts and the history of art through the study of selected important monuments and works of art from both the Eastern and Western traditions. Lectures and reading assignments will emphasize the interpretation of works of art within their cultural context.

**FA 1010 Art Appreciation**

3 cr.

Offered each semester. Open to all undergraduates. An introduction to art in which the visual elements and principles are examined through a study of the key monuments in the history of art from cave paintings to the present. Important styles of painting, sculpture, architecture, and twentieth century media are explored with

attention to the personalities of the artists and the cultures in which they lived.

**FA 1050 Design Fundamentals**

3 cr.

Offered each semester. A study of the elements of design art including color, composition, process, and visual perception with practice in the various traditional media. Primarily for Fine Arts majors. Six hours of studio work.

**FA 1051 Digital Design**

3 cr.

Offered each semester. A study of the elements of design including color, composition, process, and visual perception with practice in the digital media. Students will work with industry standard and freeware programs. Primarily for Fine Arts majors. Six hours of studio work.

**FA 1060 Drawing I**

3 cr.

Offered each semester. An introduction to basic drawing concepts and media. Six hours of studio work.

**FA 1061 Drawing II**

3 cr.

Offered each semester. Prerequisite: FA 1060. Continued exploration of drawing concepts and media with an emphasis on academic and life drawing techniques and experimental approaches. Six hours of studio work.

**FA 1100 Introduction to European Art and Architecture**

3 cr.

Introduction to the major developments in Western art from ancient Greece through the twentieth century. Offered only for students enrolled in the High School European Honors Program at Innsbruck.

**FA 1551 Introduction to Photography for Non-Art Majors**

3 cr.

This course is an introduction to still photography for non-art majors. This class is non-darkroom based and will familiarize students with basic skills of photography. Technical aspects such as camera operation, flash and lighting, exposure, film and film speed selection will be addresses in conjunction with non-technical aspects such as the history of photography, contemporary photography/art, aesthetics and composition, fine art/commercial applications, and the critiquing of images, via weekly lectures and assignments both inside and outside of class. Student must have a least a digital point-and-shoot camera. Six hours of studio work.

**FA 2000 Field Research in the Arts**

1 cr. min./3 cr. max.

(FTCA 2000, FA 2000, and MUS 2000 are cross-listed) Prerequisite: consent of department. Special research project in the arts involving field experience and study outside the city of New Orleans. Advance preparation for the project will include conference with or lecture by the faculty and readings in the specific areas to be studied. The study trip will consist of attendance at a minimum of four theatrical or musical performances or a minimum of eight hours spent in visits to exhibits or museums for each hour of credit. A follow-up paper on a research topic inspired by the trip will be required. May be repeated for up to six hours of credit. Credit will be given for only FTCA 2000, FA 2000, or MUS 2000 for the same trip.

**FA 2201 Historical Survey of the Arts**

3 cr.

Offered each semester. Prerequisite: satisfactory completion of ENGL 1158. Prehistoric, ancient, classical, and medieval periods. Lectures with slides, films, and readings.

**FA 2202 Historical Survey of the Arts**

3 cr.

Offered each semester. Prerequisite: satisfactory completion of ENGL 1158. The Renaissance, the New World, and the contemporary periods. Lectures with slides, films, and readings.

**FA 2215 Monuments of Greek and Roman Art**

3 cr.

Prerequisite: satisfactory completion of ENGL 1158. Survey of the major monuments of Greek and Roman Art from the Archaic

- Period, c. 650 B.C. in Greece to the Early Christian Period, c. 400 A.D. on the Italian peninsula.
- FA 2220 Monuments of Medieval Art** 3 cr.  
Prerequisite: satisfactory completion of ENGL 1158. Survey of the major monuments of European Art from the medieval period with emphasis on church architecture and sculpture.
- FA 2231 A Survey of the History of Photography** 3 cr.  
Prerequisite: satisfactory completion of ENGL 1158. A survey of the history of photography and its influence on modern styles from its earliest beginnings to work by contemporary photographers. Emphasis will be on both aesthetic and technical innovations.
- FA 2232 Monuments of Italian Art** 3 cr.  
Survey of the major monuments in painting, sculpture, and architecture from Italy c. 1400-c. 1580.
- FA 2236 Monuments of Italian Baroque Art** 3 cr.  
Survey of the major monuments in painting, sculpture, and architecture in Italy c. 1600-c. 1750.
- FA 2245 Monuments of the Nineteenth Century** 3 cr.  
Prerequisite: satisfactory completion of ENGL 1158. Survey of the major monuments in painting, sculpture, and graphic arts in Europe c. 1780-1880.
- FA 2264 Art of the Twentieth Century** 3 cr.  
Prerequisite: satisfactory completion of ENGL 1158. A survey of the major monuments of European and American painting, sculpture, and architecture from c. 1880 to the present.
- FA 2550 Introduction to Imaging** 3 cr.  
Offered each semester. Prerequisite: FA 1050, 1051, 1060 and 1061. An introduction to the acquisition, creation, manipulation, and production of reproducible imagery using a variety of traditional, digital and alternative methods.
- FA 2650 Introduction to Sculpture** 3 cr.  
Offered each semester. Prerequisites: FA 1050, 1051, 1060 and 1061. An introduction to formal and technical problems in sculpture. Emphasis on both traditional and contemporary practice. Demonstrations and discussion. Six hours of studio work.
- FA 2710 Watercolor** 3 cr.  
Prerequisites: FA 1011, 1012, and 1014. An introduction to watercolor as a Fine Arts medium exploring a sequence of painting problems emphasizing wash drawing, color, and design structure. Discussions and slide talks. Six hours of studio work.
- FA 2750 Introduction to Painting** 3 cr.  
Offered each semester. Prerequisites: FA 1050, 1051, 1060 and 1061. An introduction to formal and technical problems of painting and development of fundamental concepts and skills. Class work includes studio projects supplemented by discussions, critiques, slide presentations, field trips, lectures, and outside readings. Six hours of studio work.
- FA 3203 Senior Project in Art History** 3 cr.  
Prerequisites: At least 24 hours in art history courses at the 3000 level or above, including one with at least three of the full-time art history faculty, and consent of department. Independent study resulting in the writing of an advanced research paper. Topic to be determined in consultation with the supervising faculty member. The finished paper will be evaluated by a committee of the art history faculty.
- FA 3271 Art Historical Methods** 3 cr.  
Prerequisites: 12 hours in art history including FA 2201 and 2202 and consent of department. Offered once every third semester excluding summers. A seminar designed to familiarize students with a variety of art historical methods through readings, discussions, written assignments, and visits to museums and archives. Required of all art history majors. Students in disciplines other than art history who can meet the prerequisites and are interested in post-baccalaureate studies or career possibilities in art history are encouraged to take this course.
- FA 3291 Internship in Fine Arts** 3 cr.  
Prerequisite: consent of department. Each semester the department makes available a limited number of internships for qualified undergraduates with the City of New Orleans and other public and nonprofit agencies. Interns will work a minimum of eight hours a week at times mutually agreeable to the individual and the agency; some assignments may require more than eight hours a week. In addition, the student must meet regularly with an adviser from the fine arts faculty and the student's work will receive written evaluation from both the agency supervisor and the departmental adviser. FA 3291 and 3292 may not be used as part of the departmental requirement for a nine hour sequence at the 3000 level stipulated in the Studio Art Option.
- FA 3292 Internship in Fine Arts** 3 cr.  
Prerequisite: consent of department. Each semester the department makes available a limited number of internships for qualified undergraduates with the City of New Orleans and other public and nonprofit agencies. Interns will work a minimum of eight hours a week at times mutually agreeable to the individual and the agency; some assignments may require more than eight hours a week. In addition, the student must meet regularly with an adviser from the fine arts faculty and the student's work will receive written evaluation from both the agency supervisor and the departmental adviser. FA 3291 and 3292 may not be used as part of the departmental requirement for a nine hour sequence at the 3000 level stipulated in the Studio Art Option.
- FA 3293 Independent Study in Art History** 3 cr.  
Prerequisites: 12 hours in art history including FA 2201 and 2202 and consent of department. A tutorial arranged individually to provide latitude for specialized study and research on topics not offered in the current curriculum. A member of the art history faculty will arrange a study-research outline with each student in the first tutorial meeting. Weekly progress reports conferences and a research paper are required. FA 3293 may not be used to satisfy the period distribution requirements of the art history major. This course may be repeated once for credit.
- FA 3299 Senior Honors Thesis in Art History** 3 cr.  
Prerequisites: consent of the department and Director of the Honors Program. Directed research leading to the writing of a Senior Honors Thesis. Must be repeated for a total of six credit hours in order to graduate with honors in Art History. Credit for this course will not be counted towards the 12 hours of Art History at the 3000-level or above required for Art History majors. Successful completion of six hours in FA 3299 will be accepted in lieu of FA 3203.
- FA 3301 Advanced Drawing** 3 cr.  
Offered each semester. Prerequisite: FA 3402. Students will execute a major project in the area of photography, prepare a critical analysis of their project, and plan and present a suitable exhibit of the project for review and evaluation by a committee of studio faculty. Six hours of studio work.
- FA 3302 Advanced Drawing** 3 cr.  
Prerequisite: FA 2300. Studio work in drawing with emphasis on studio projects. Six hours of studio work.
- FA 3550 Advanced Studio Practice in Imaging: Special Topics** 3 cr.  
Offered each semester. Prerequisite: FA 2550. Studio work in Imaging, including Photography, Printmaking, or Digital Art. Topics will

- vary from semester to semester to give students a broad exposure to the areas encompassed in the Imaging concentration. FA 3550 may be repeated for up to nine hours of credit. Six hours of studio work.
- FA 3595 Academic Year Abroad: Special Topics in Fine Arts** 3 cr.  
This course is only offered through UNO's Academic Year Abroad (AYA) in Innsbruck, Austria and can be repeated once for credit.
- FA 3650 Advanced Studio Practice in Sculpture** 3 cr.  
Offered each semester. Prerequisite: FA 2650. A continuation of the study of formal, technical, and aesthetic problems in sculpture. Assignments will focus on developing each student's art and its relation to the world of sculpture as well as a further expansion of techniques, materials and theories. Demonstration and discussion. FA 3650 may be repeated for up to 9 hours of credit. Six hours of studio work.
- FA 3750 Advanced Studio Practice in Painting** 3 cr.  
Offered each semester. Prerequisite: FA 2750. Studio work in painting, with emphasis on the development of a variety of skills, concepts, and materials. Class work includes studio projects supplemented by discussions, critiques, slide presentations, field trips, lectures, and outside readings. FA 3750 may be repeated for up to 9 hours of credit. Six hours of studio work.
- FA 4100/G Principles in Art Education** 3 cr.  
A survey of major ideas regarding the role of art in contemporary life and education with special emphasis upon understanding the nature of creativity and art experiences in childhood and adolescent development. The establishment of art programs and problems in selection, organization, presentation, and evaluation of art activities in relation to the total educational format.
- FA 4210/G African Art** 3 cr.  
A study of the arts of sub-Saharan Africa. Emphasis is on the form and function of art in African cultures previous to or independent of Westernization.
- FA 4211/G Art of the Pacific-Oceania** 3 cr.  
A study of the arts of the Pacific Islands, Oceania art, especially the art of Polynesia, Melanesia, Micronesia, and Australia. Emphasis is on the form and function of the art in these regions prior to or independent of Westernization.
- FA 4220/G Medieval Art** 3 cr.  
Prerequisites: FA 2201 and 2202 or consent of department. A survey of European art from the Middle Ages with emphasis on Christian architecture sculpture and painting.
- FA 4230/G The International Gothic and (Ars Nova) in the Netherlands and Germany** 3 cr.  
Prerequisite: FA 2201, 2202 or consent of department. Critical study of developments in painting sculpture and graphics in Northern Europe from Claus Sluter to Hieronymus Bosch.
- FA 4233/G The Art of the Sixteenth Century in Holland, Belgium, Germany, Austria, and France** 3 cr.  
Prerequisite: FA 2202 or consent of department. Recommended as a sequel to FA 4230. Critical study of developments in painting, sculpture, and graphics in Northern Europe from Albrecht Durer to Germain Pilon.
- FA 4234/G Late Medieval Art in Italy, 1250-1400** 3 cr.  
Prerequisite: FA 2202 or permission of the instructor. This course focuses on developments in painting, sculpture, and architecture in late medieval Italy, with a special emphasis on the Tuscan cities of Florence, Siena, and Pisa. Attention will be given to issues of style, regional schools, and typology, to individual artists and artworks and to the examination of the central themes raised in the literature concerning this period (for example, the proto-Renaissance, a "Black-Death" style).
- FA 4235/G The Art of Quattrocento in Italy** 3 cr.  
Prerequisite: FA 2201, 2202 or consent of department. Critical study of developments in painting, sculpture, and graphic media in the major centers of Italy from Ghiberti to Signorelli.
- FA 4237/G The High Renaissance and Mannerism in Italy** 3 cr.  
Prerequisite: FA 2202 or consent of department. Recommended as a sequel to FA 4235. Critical study of developments in painting, sculpture, and graphic media in Italy from Leonardo da Vinci to Paolo Veronese.
- FA 4238/G Architecture of the Renaissance and Baroque** 3 cr.  
Prerequisites: FA 2201 and 2202, or consent of department. Recommended as a sequel to FA 4235 and 4237. Systematic study of the major developments in architecture and urban design in Italy, France, Spain, c. 1400-1750. Emphasizing the leading role of Italy with mention of selected cities and monuments from France and Spain.
- FA 4240/G Italian Baroque and Rococo Art** 3 cr.  
Prerequisite: FA 2202 or consent of department. Recommended as a sequel to FA 4238. Critical study of the developments in painting, sculpture, and graphic media in Italy from Caravaggio to Guardi.
- FA 4245/G Art of the Nineteenth Century** 3 cr.  
Fall semester. Prerequisite: FA 2202 or consent of department. A study of the arts of Europe and America from neoclassicism to Postimpressionism.
- FA 4246/G Special Topics in Nineteenth Century Art** 3 cr.  
Prerequisite: FA 2202 or consent of the instructor. An investigation of a major movement, style, or subject relevant to nineteenth century art. Topics will vary. Lecture, evaluations, and discussions.
- FA 4263/G Twentieth Century Architecture** 3 cr.  
Prerequisite: FA 2202 or consent of instructor. A study of the architects, movements, and monuments which have determined the course of twentieth century architecture in the United States and Europe.
- FA 4265/G Early Modern Art (1880-1920)** 3 cr.  
Prerequisite: FA 2202 or consent of instructor. Developments in painting and sculpture in Europe and the United States from the 1880s to 1920. Attention will be given to major styles and movements (including Symbolism, Neo-Impressionism, Fauvism, Cubism, Expressionism, and Dada) to individual artists and artworks, and to the development of the concepts of revolutionary modernism and the avant-garde, of the primitive in art, and of abstraction.
- FA 4266/G Modernism at Mid-Century (1920-1960)** 3 cr.  
Prerequisite: FA 2202, 4265 or consent of instructor. Developments in painting and sculpture in Europe and the United States from 1920 to 1960. Attention will be given to major styles and movements (including Surrealism, Abstract Expressionism, Art Informel, Neo Dada), to individual artists and artworks, and to the instrumental roles of the historian, the critic, the curator, the marketplace, and political events in shaping late modern art.
- FA 4267/G Contemporary Art: Postmodernism and Beyond (1960-present)** 3 cr.  
Prerequisite: FA 4266 or consent of instructor. Developments in the visual arts in the United States and Europe from 1960 to the present. Attention will be given to major styles and movements (including Pop, Minimalism, Performance, Environmental Art, Conceptual Art, Feminism, Neoexpressionism, Appropriation), to significant artists and critics, and to the historical and theoretical context in which the concept of Postmodernism has taken shape.

- FA 4270 Special Topics in Modern Art 3 cr.
- FA 4270/G Special Topics in Modern Art 3 cr.
- FA 4550 Senior Project in Imaging 3 cr.  
Offered each semester. Prerequisite: 9 hours of FA 3550. Students will execute a major project in the area of Imaging, prepare a critical analysis of that project, and plan and present a suitable exhibit of the work for review and evaluation by a committee of studio faculty. Six hours of studio work.
- FA 4650 Senior Project in Sculpture 3 cr.  
Offered each semester. Prerequisite: Nine hours of FA 3650. Students will execute a major project in the area of sculpture, prepare a critical analysis of their project, and plan and present a suitable exhibit of the project for review and evaluation by a committee of studio faculty. Six hours of studio work.
- FA 4750 Senior Project in Painting 3 cr.  
Offered each semester. Prerequisite: Nine hours of FA 3750. Students will execute a major project in the area of painting, prepare a critical analysis of their project, and plan and present a suitable exhibit of the project for review and evaluation by a committee of studio faculty. Six hours of studio work.
- FA 6100 Independent Research in Art History 3 cr.  
Prerequisite: consent of department.
- FA 6501 Major Studio I 3 cr.  
Offered each semester. Major Studio for Master of Fine Arts candidates in one of the areas of painting, sculpture, graphics, or photography. To be taken in sequence for a total of 12 hours.
- FA 6502 Major Studio I 3 cr.  
Offered each semester. Major Studio for Master of Fine Arts candidates in one of the areas of painting, sculpture, graphics, or photography. To be taken in sequence for a total of 12 hours.
- FA 6503 Major Studio I 3 cr.  
Offered each semester. Major Studio for Master of Fine Arts candidates in one of the areas of painting, sculpture, graphics, or photography. To be taken in sequence for a total of 12 hours.
- FA 6504 Major Studio I 3 cr.  
Offered each semester. Major Studio for Master of Fine Arts candidates in one of the areas of painting, sculpture, graphics, or photography. To be taken in sequence for a total of 12 hours.
- FA 6601 Major Studio II 3 cr.  
A continuation of Major Studio I. Major studio for Master of Fine Arts candidates in the studio area that was selected for Major Studio I. To be taken in sequence for a total of 21 hours.
- FA 6602 Major Studio II 3 cr.  
A continuation of Major Studio I. Major studio for Master of Fine Arts candidates in the studio area that was selected for Major Studio I. To be taken in sequence for a total of 21 hours.
- FA 6603 Major Studio II 3 cr.  
A continuation of Major Studio I. Major studio for Master of Fine Arts candidates in the studio area that was selected for Major Studio I. To be taken in sequence for a total of 21 hours.
- FA 6604 Major Studio II 3 cr.  
A continuation of Major Studio I. Major studio for Master of Fine Arts candidates in the studio area that was selected for Major Studio I. To be taken in sequence for a total of 21 hours.
- FA 6605 Major Studio II 3 cr.  
A continuation of Major Studio I. Major studio for Master of Fine Arts candidates in the studio area that was selected for Major Studio I. To be taken in sequence for a total of 21 hours.
- FA 6606 Major Studio II 3 cr.  
A continuation of Major Studio I. Major studio for Master of Fine Arts candidates in the studio area that was selected for Major Studio I. To be taken in sequence for a total of 21 hours.
- FA 6607 Major Studio II 3 cr.  
A continuation of Major Studio I. Major studio for Master of Fine Arts candidates in the studio area that was selected for Major Studio I. To be taken in sequence for a total of 21 hours.
- FA 6701 Minor Studio 3 cr.  
Minor Studio for M.F.A. candidates to be chosen from a studio area different from the major area. To be taken in sequence for a total of 12 hours.
- FA 6702 Minor Studio 3 cr.  
Minor Studio for M.F.A. candidates to be chosen from a studio area different from the major area. To be taken in sequence for a total of 12 hours.
- FA 6703 Minor Studio 3 cr.  
Minor Studio for M.F.A. candidates to be chosen from a studio area different from the major area. To be taken in sequence for a total of 12 hours.
- FA 6704 Minor Studio 3 cr.  
Minor Studio for M.F.A. candidates to be chosen from a studio area different from the major area. To be taken in sequence for a total of 12 hours.
- FA 6801 Seminar in Fine Arts 1 cr.  
No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements. Investigation into concepts and issues in visual arts. Students in the M.F.A. program must enroll in the seminar three times. Grades will be assigned on a SU basis.
- FA 7000 Thesis Research 1 cr. min./9 cr. max.  
Offered each semester. To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.
- FA 7040 Examination or Thesis Only 0 cr.  
No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

## Finance

- FIN 1330 Personal Finance 3 cr.  
Offered each semester. (Not open to students enrolled in the College of Business Administration who have completed 30 semester hours or more of university credit.) Survey course that covers the following areas: a financial health program, budgeting, consumer protection, housing, insurance program, investment portfolio, other potential investments, taxes, and estate planning. The impact of personal finance on the economy will also be examined.
- FIN 2302 Introduction to Investing 3 cr.  
Offered each semester. The course provides an overview of investment opportunities in financial instruments such as common stocks, preferred stocks, government and corporate bonds, rights, warrants, convertibles, options, futures, and mutual funds.

- FIN 2335 Principles of Real Estate** 3 cr.  
Offered each semester. The principles of purchasing, owning, and operating real estate relative to interest in realty, liens, contracts, deeds, titles, leases, brokerage, and management.
- FIN 3099 Senior Honors Thesis** 1 cr. min./6 cr. max.  
Offered each semester. Prerequisite: consent of department and Honors Program Director. Senior honors thesis under the direction of a faculty member. Section number will correspond with credit to be earned. Must be repeated for a total of six credit hours to be eligible to graduate with honors.
- FIN 3300 Principles of Financial Management** 3 cr.  
Offered each semester. Prerequisites: ECON 1203 or ECON 2200. ACCT 2100 is recommended. Introduction to investment, financing, and dividend decisions of business firms. Topics include valuation, capital budgeting, working capital management, capital structure and cost of capital, sources of financing, and dividend policy.
- FIN 3301 Small Business Finance** 3 cr.  
This course applies the skills of financial analysis to the particular problem of financing new ventures and existing small businesses. Specific topics covered include legal forms of organization and how they affect financing alternatives, ratio analysis, identifying and evaluating sources of small business financing, buying existing small businesses, financing growth and diversification, and dealing with bankruptcy and liquidation. Emphasis is placed on the evaluation and preparation of financing packages for securing financing from banks, ventured capital investors and government agencies.
- FIN 3302 Investments** 3 cr.  
Offered each semester. Prerequisite: FIN 3300 or ECON 2000. Fundamental information regarding the organization, regulation, and performance of securities in the various markets and financial instruments.
- FIN 3303 Financial Institutions** 3 cr.  
Prerequisite: ECON 2221. Study of the impact of financial institutions on both the total level of economic activity and the allocation of funds to various sectors of the economy. Analysis of the intermediary process and the determination of interest rates in the financial markets.
- FIN 3321 Bank Administration** 3 cr.  
Prerequisites: ECON 2221 and FIN 3300. The financial management of the commercial bank from the perspective of senior management. An internal analysis of bank portfolio construction, bank capital structure, the lending function, and other decisions of the financial manager that affect the value of the bank.
- FIN 3366 Income Property Analysis** 3 cr.  
A study of valuation and appraisal methods for commercial, industrial, residential, and other income properties. Included will be the problems of real estate development, redevelopment, and property taxation.
- FIN 3368 Real Estate Finance** 3 cr.  
Issues and problems in the administration of real estate mortgages; sources and uses of mortgage funds, including land acquisition, construction, permanent, and secondary financing; cost of funds, mortgage yields and accompanying risk; federal and state role in mortgage markets.
- FIN 3370 Residential Real Estate Development** 3 cr.  
A survey of major topics in valuation of residential real estate. Topics include real estate valuation, supply and demand factors affecting land use, economics of land use, government and other external forces, affecting land use, planned unit development, historic properties, and major financial instruments.
- FIN 3391 Undergraduate Directed Individual Study** 3 cr.  
(ECON 4291 and FIN 4391 are cross-listed) Offered each semester. Prerequisites: Approval of the directed individual study by the department chair and the supervising professor is required prior to registration. The student should refer to the College of Business Administration Policy On Undergraduate Directed Individual Study available in the Department of Economics and Finance. This course is arranged individually in order to provide latitude for specialized study and research under the direction of a faculty member. Progress reports, readings, conferences, and a research paper are required. May be repeated.
- FIN 3392 Internship in Finance** 3 cr.  
Prerequisites: BA 2780, QMBE 2786, and FIN 3300 and consent of department. Student intern is engaged in ten hours per week at the site of an assigned participating organization which directs the intern in a specific research project. Students wishing to take this course should apply a semester in advance since enrollment is limited by internships available.
- FIN 3595 Academic Year Abroad: Special Topics in Finance** 3 cr.  
This course is only offered through UNO's Academic Year Abroad (AYA) in Innsbruck Austria and can be repeated once for credit.
- FIN 3999 Special Topics in Finance** 3 cr.  
Prerequisite: Consent of department. Topic will vary from semester to semester. May be repeated once for credit.
- FIN 4222/G Cash and Liquidity Management** 3 cr.  
Prerequisite: FIN 3300. An examination of the theory and practice of working capital management. Topics include cash management, credit and accounts receivable management, collections and cash concentrations, short-term investments and borrowing, forecasting cash flows, financial risk management, and international cash management.
- FIN 4242/G The Economics of State and Local Finance** 3 cr.  
Prerequisite: ECON 1203 or 2200. This is a course designed to analyze the functions of state and local governments relating to the provision of public goods. The demand for and the supply of public goods as well as the production of these goods will be examined. Optimal methods of financing these government services will be investigated. The tax incidence and the equity of various financing forms will be presented. Grants-in-aid, revenue sharing, and other federal policies affecting intergovernmental relations in a federal system will also be analyzed.
- FIN 4301/G Financial Theory** 3 cr.  
Offered each semester. Prerequisite: FIN 3300. Analysis of the financial theory of the business enterprise from the viewpoint of an internal decision-maker. In addition to the study of theories themselves, the course will cover empirical evidence as tests of theories. Topics to be covered will include: risk and uncertainty in investment and financial decisions, asset and security valuation theory, cost of capital and capital structure theory, dividend decisions, capital budgeting, and portfolio analysis. Students may not receive graduate credit for both FIN 4301 and FIN 6301.
- FIN 4304 Finance Capstone** 3 cr.  
Offered each semester. Prerequisites are Finance 3302, Finance 3303 or Finance 3321, and senior standing. Emphasis on financial decision-making that requires integrating the core finance areas of corporate finance, investments, portfolio management, and financial institutions. This course is not open to graduate students.
- FIN 4305/G Business Cycles and Forecasting** 3 cr.  
(ECON 4205 and FIN 4305 are cross-listed) Prerequisite: ECON 1203, 1204, and QMBE 2786. Univariate forecasting models; multiple time

series model building. Applications to business trends and business cycles.

**FIN 4306/G International Finance** 3 cr.  
(ECON 4306 and FIN 4306 are cross-listed) Prerequisite: ECON 1203 and 1204 or ECON 2200, or FIN 3300. This course examines the financial operations of the firm from an international point of view. It draws upon topics such as exchange rate determination, foreign exchange exposures (risks) for the multinational firm and techniques to hedge such exposures, international bond, equity and currency markets, trade documentation, and international capital budgeting. This course will cover the following Candidate Body of Knowledge (CBOK) sections from the Chartered Financial Analyst CFA Program: CBOK Section III, J. International Finance. Students may not receive graduate credit for both ECON 4262, FIN 4306, and FIN 6367.

**FIN 4307/G Portfolio Analysis** 3 cr.  
Prerequisite: FIN 3302 and QMBE 2786, or consent of department. Demonstration of portfolio analysis techniques used by individuals and institutions. The course will cover the following Candidate Body of Knowledge (CBOK) sections from the Chartered Financial Analyst CFA Program: CBOK Section VI. Analysis of Equity Investments, CBOK Section VII. Analysis of Debt Investments, CBOK Section X. Portfolio Management, and CBOK Section II.J. Portfolio Concepts.

**FIN 4308/G Derivatives Analysis** 3 cr.  
Prerequisite: FIN 3302 and QMBE 2786 or consent of department. An examination of the organization structure of speculative markets and the performance of speculative assets. Topics include the institutional nature of options and futures markets; investment and hedging strategies; and the valuation of options on stocks, interest rates, and futures contracts as well as the analysis of commodity, interest rate, stock index, and foreign exchange futures prices. The course will cover the following Candidate Body of Knowledge (CBOK) sections from the Chartered Financial Analyst CFA Program: CBOK Section VIII. Analysis of Derivatives.

**FIN 4310/G Personal Financial Planning** 3 cr.  
Prerequisite: FIN 3300. An examination of a broad range of topics in personal financial planning including: client interactions, time value of money applications, personal financial statements, cash flow and debt management, asset acquisition, education planning, overview of risk management investment planning and retirement planning, special circumstances, plan integration, ethics, and the business of financial planning.

**FIN 4311/G Insurance Planning and Risk Management** 3 cr.  
Offered each semester. A course focused upon the consumer interest in an interdisciplinary approach to the subjects of pure risk and decision-making with emphasis upon planning family insurance programs. Principal topics include the impact on the family of economic risk, the private insurance mechanism, government benefit programs, and specific types of insurance coverage of importance to the family. Specific attention is focused upon such financial instruments as life insurance, health insurance, automobile insurance, and insurance for the home. Consumer issues related to the private insurance mechanism and government benefit programs are considered. The roles of economic facts and consumer attitudes in making decisions among alternatives also will be explored.

**FIN 4312/G Retirement Planning** 3 cr.  
Prerequisite: FIN 3300. Course provides individuals with knowledge of both public and private retirement plans. The public plans include Social Security, Medicare and Medicaid. The private plans include defined benefit and defined contribution plans and their regulatory provisions. The specifics of the various plans are

analyzed as well as non-qualified deferred compensation plans. Finally, issues that individuals face in retirement, such as life-style choices and medical issues are discussed.

**FIN 4322/G The Money and Capital Markets** 3 cr.  
Prerequisite: ECON 2221. The money and capital markets their composition regulation and operations; their influence in modern business; sources and uses of funds; commercial paper; acceptances; bank loans; call loans; negotiable certificates of deposit; investment banking and the Securities and Exchange Commission; the open market functions and activities of the Federal Reserve System.

**FIN 4354 Property and Liability Insurance** 3 cr.  
Prerequisite: FIN 3355. A functional course in property and liability insurance including areas of underwriting, reinsurance, investment, financial statement analysis, mathematical concepts of rate-making and reserves, types of insurance carriers, policy analysis, and government and social policy implications. Not for graduate credit.

**FIN 4355/G Life and Health Insurance** 3 cr.  
Prerequisite: FIN 3355. Functions and uses of life and health insurance, contract analysis, legal aspects, mathematics of life and health insurance, selection and classification of life and health risks, industrial and other forms of life and health insurance, and business uses of life insurance. A significant part of the course is the role and uses of life insurance in personal financial planning.

**FIN 4370/G Real Estate Feasibility and Site Location Analysis** 3 cr.  
Prerequisite: one of the following: FIN 2335 or consent of department. A survey of the physical characteristics, market, economic, and financial considerations which enter into the decision process for selecting business locations; allocating land resources among a number of possible revenue producing uses, and analysis of locational considerations on the profitability of the firm. An extensive field research project is an integral part of the course.

**FIN 4400 Financial Foundations for Managers** 3 cr.  
An approach to finance principles and practice intended for managerial use. Emphasis will be placed on applying finance principles in managerial decision-making as it concerns the investment, financing, and dividend decisions of business firms. Not open to College of Business undergraduate majors. This course may not be taken for graduate credit.

**FIN 4696 Washington Center Internship** 3 cr. min./6 cr. max.  
The Washington, D.C. Internship Program is offered in cooperation with the Washington Center for Internships and Academic Seminars. Students of junior-level or higher standing and a grade-point average of 2.5 or better are eligible to participate in the Program. The program is conducted in Washington, D.C. and consists of an internship of four-and-a-half workdays per week, a three-hour course one night a week, and a major research paper. Participants can earn 12 credit hours during a fall or spring semester (nine hours in summer). Not for graduate credit.

**FIN 6300 Financial Administration** 3 cr.  
Offered each semester. Prerequisite: QMBE 2786 and 2787, or QMBE 4400 and FIN 3300, or FIN 4400 and credit for or concurrent registration in ACCT 6130. Study of advanced principles and practices in the administration of the financial affairs of business enterprises. Emphasis is on efficient use of financial resources, evaluation of investment project capital budgeting, and maintenance of credit-worthiness.

**FIN 6301 Corporate Financial** 3 cr.  
(Students may not receive graduate credit for both FIN 4301 and FIN 6301) Prerequisites: QMBE 2786 and 2787, or QMBE 4400 and FIN 3300, or FIN 4400 and credit for or concurrent registration in ACCT

6130. The course provides a comprehensive overview from managerial perspective of such topics as theory of uncertainty, valuations (including warrants and convertibles), advanced capital structure theory and cost of capital, dividend theory, mergers, restructuring and corporate control, agency theory, and applied issues in corporate finance (including leasing, leveraged buyouts, and interest rate swaps).
- FIN 6302 Investments** 3 cr.  
Prerequisite: FIN 6300 or 6301. The course provides an analysis of such topics as portfolio theory, capital asset pricing models, Arbitrage Pricing Theory, efficient capital market theory, option pricing theory, futures contracts and markets, and the securities market.
- FIN 6303 Financial Markets and Institutions** 3 cr.  
Prerequisite: FIN 6300 or 6301. An overview of the processes at work within the financial system, its major participants, its procedures for assessing and pricing risk, and its role in the allocation of credit to different financial sectors.
- FIN 6309 International Financial Management** 3 cr.  
Prerequisite: FIN 6300 or 6301 or enrollment in the Master of Science program in Accounting. Geared for the MBA or other graduate students interested in a graduate level course emphasizing the managerial aspects of international finance. Students enrolled in the Ph.D. program in Financial Economics cannot use this course in their graduate program of study, and no students will receive graduate credit for both ECON 4262/FIN 4362 and Finance 6309.
- FIN 6311 Theory of Corporate Finance** 3 cr.  
Prerequisites: Must be a Ph.D. in Financial Economics Student. The course is intended to provide students with a strong foundation for understanding the theoretical and empirical concepts in modern corporate finance. The topics covered in the course include valuation under risk and uncertainty, advanced capital budgeting topics, market efficiency, agency theory and signaling under information asymmetry capital structure theory, dividend policy, corporate control and financial distress. This is a core course for Ph.D. students in financial economics and is not open to MBA students.
- FIN 6312 Investment Theory** 3 cr.  
Prerequisites: Must be a Ph.D. in Financial Economics Student. This course is designed to provide the Ph.D. student with a solid foundation in modern investment theory. This course takes a theoretical approach to the understanding of the following issues: portfolio theory, capital asset pricing model, arbitrage pricing, term structure of interest rates, future options and market efficiency. The review of classic theoretical and supporting empirical finance literature will be emphasized. This course may only be taken by Ph.D. students.
- FIN 6313 Seminar in Financial Markets and Institutions** 3 cr.  
Prerequisites: FIN 6303 and must be a Ph.D. in Financial Economics Student. This course examines the role of financial intermediaries in resolving informational asymmetries in the credit market and promoting economic development. The topics covered in this course include theory of financial intermediation, theory and management of interest rate and exchange rate risk, banking and financial distress, bank regulation and deposit Insurance Contract, off-balance sheet banking system, efficiency of banking system, and financial theory of insurance industry.
- FIN 6314 Seminar in Corporate Finance** 3 cr.  
Prerequisite: FIN 6301. The purpose of the course is to expose the advanced student to a direct reading of journal articles and book chapters in classic works as well as more recent developments in corporate financial theory.
- FIN 6315 Seminar in Investments** 3 cr.  
Prerequisite: FIN 6302. This course exposes students to recent journal articles as well as classic works. Topics selected will be at the discretion of the instructor. Topics will be selected from portfolio theory, capital asset pricing models and the Arbitrage Pricing Theory, efficient capital market theory, option pricing theory, futures contracts and markets, and the securities market.
- FIN 6317 Theories and Empirical Evidence in Financial Economics** 3 cr.  
Prerequisite: completion of the core courses for the Ph.D. program in Financial Economics. An advanced theoretical and empirical analysis of current subjects in financial economics linking theoretical and empirical research. The course will heavily emphasize the completion of a research paper leading toward dissertation research.
- FIN 6318 Derivative Securities** 3 cr.  
Prerequisite: FIN 6312. An analysis of derivative financial instruments including forward contracts, futures contracts on commodities, financial assets and indexes, option contracts on financial assets, option contracts on futures, and swap contracts.
- FIN 6319 Seminar in International Finance** 3 cr.  
Prerequisite: FIN 6311, FIN 6312, and QMBE 6282. This course examines at an accelerated pace using advanced textbook and journal article literature the classic and more recent developments in international finance. The topics will center around the theory of exchange rate determination and uncertainty, and its implications for the investment choices (international capital budgeting) and foreign exchange risk (exposure) of the multinational money and capital market, to hedge exposure for international projects, investments, and portfolios will also be presented.
- FIN 6321 Commercial Bank Management** 3 cr.  
Prerequisites: ECON 2221 and FIN 3300. An examination of the role of commercial banking in the economy and advanced theoretical and applied analysis of commercial bank management.
- FIN 6333 Real Estate Finance and Market Feasibility Analysis** 3 cr.  
Prerequisite: one of the following: FIN 6300, URBN 6165, FIN 3366, FIN 3368 or the consent of the department. A survey of the physical characteristics and the market, economic, and financial considerations which enter into the decision process for selecting business locations. Addresses the allocation of land resources among a number of possible revenue-producing uses and the impact of location considerations on the profitability of the firm. An extensive field research project is an integral part of the course.
- FIN 6350 Health Care Financial Management** 3 cr.  
Prerequisite: BA 6014. The purpose of this course is to examine the role of the financial manager in acquiring and utilizing funds for the operation of a health care enterprise. Financial decisions of the manager – planning and forecasting, long-term investment decisions, financing decisions, and short-term asset management decisions – will be carefully evaluated in light of the enterprise's goal to maximize its value. Financial principles will be applied to firms involved in health care business. A student cannot receive degree credit for both FIN 6300 and FIN 6350.
- FIN 6355 Seminar in Risk Management and Insurance** 3 cr.  
Prerequisite: FIN 6300 or 6301. A comprehensive study of management of non-speculative risks in the business enterprise with emphasis on insurance as a tool. Topics covered include concepts of risk and insurance; risk analysis; treatment of risk control and financing; analysis of insurance contracts, group insurance and pensions; and investigation of insurance market.

**FIN 6391 Directed Individual Studies** 3 cr.

Prerequisite: consent of department. This tutorial is arranged individually in order to provide latitude for specialized study and research. May be repeated for credit.

**FIN 6394 Internship in Finance** 3 cr.

Prerequisite: 15 hours of MBA courses with at least a 3.0 GPA and consent of the department. The student will work a minimum of 150 hours during the semester at the site of a participating organization that directs the intern in a specific finance project. Students must in addition engage in extensive outside research in the subject area related to their internship and submit a substantial report on this research reflecting a graduate level of learning. Enrollment is limited. May not be repeated for credit.

**FIN 6395 Special Topics in Finance** 1 cr. min./4 cr. max.

Description: An intensive study of selected special topics in Finance. Topics will vary based on contemporary needs as dictated by the discipline as well as the interests of the students and the instructor. Section number will correspond with credit hours to be earned.

**FIN 6635 Seminar in Financial and Economic Analysis for Real Estate** 3 cr.

Prerequisites: FIN 6300 or 6301, or URBN 6165, or consent of the department. An intensive study of real estate appraisal and evaluation, supply and demand factors affecting land use, the economics of land use, taxes and land use decisions, government and other external forces affecting land use, real estate investment and development decisions, and property analysis for investment decisions.

**FIN 6670 Seminar in Mortgage Markets and Real Estate Finance** 3 cr.

Prerequisites: FIN 6300 or 6301, or URBN 6165, or consent of the department. Topics in primary and secondary market behavior and underwriting, mortgage loan underwriting, mortgage futures and options, tax exempt mortgage funds, interim and development loan analysis, and cash flow analyses.

**FIN 7050 Dissertation Research** 1 cr. min./9 cr. max.

(ECON 7050 and FIN 7050 are cross-listed) Preparation of dissertation by Ph.D. candidate under direction of major professor and dissertation committee. Section number will correspond with credit to be earned. To be repeated for credit until dissertation is accepted.

**FIN 7051 Dissertation Workshop** 1 cr.

(ECON 7051 and FIN 7051 are cross-listed) Prerequisite: Consent of the department. This is a required course for all third year Ph. D. Students in Financial Economics. Students will present progress reports on their dissertation research for critique by faculty and other graduate students.

## Foreign Language

The Critical Languages Program provides the opportunity for strongly motivated persons to undertake self-instructional courses of study in some languages not available among our regular offerings or not available at the advanced level requested. The globalization of human society imposes significantly increased demands for language-competent individuals able to use effectively many more languages than the traditional French, German, and Spanish. This program, based upon a 30-year national project at work in more than 150 universities and colleges across the country, is aimed at applying a highly effective method to enhance the opportunities associated with foreign language training.

Such courses are set up on an individual basis, by prior arrangement with the coordinator of the Critical Languages Program (CLP), and require the prior approval of the Department of Foreign Languages. Those contemplating such courses must therefore begin their planning as early as possible. Enrollment in all cases is subject to

the University's ability to locate native speakers and professional, qualified persons capable of both monitoring and evaluating the students' work. Three credits are available for these courses per semester, although all may also be taken on a noncredit basis. Credits earned may be counted as part of the 120 needed for graduation, but may not be used to fulfill any departmental or college language requirement without written approval of the appropriate administrative officers. Those interested in the program should contact the Coordinator of the Critical Languages Program through the College of Liberal Arts office.

**FORL 1001 Basic Self-Instructional Foreign Language** 3 cr.

The first of two courses for beginners to acquire basic fluency in the target language. Emphasis is on speaking and understanding, with some attention to reading and writing. The mastery of basic skills will be required to study a textbook and listen to audio tapes prior to meeting with an assigned native-speaking tutor for intensive sessions throughout the semester. Students may arrange to take this course on a non-credit basis.

**FORL 1002 Intermediate Self-Instructional Foreign Language** 3 cr.

Prerequisite: FORL 1002 or consent of Critical Languages Program Coordinator. A continuation of courses for intermediate learners that aims at the acquisition of fluency in the target language. Emphasis is on speaking and understanding, with some attention to reading and writing. The mastery of intermediate skills will be achieved through intensive aural-oral exercises and practice. Students are required to study a textbook and listen to audio tapes prior to meeting with an assigned native-speaking tutor for intensive sessions throughout the semester. Students may arrange to take this course on a non-credit basis.

**FORL 2001 Intermediate Self-Instructional Foreign Language** 3 cr.

Prerequisite: FORL 1002 or consent of Critical Languages Program Coordinator. A continuation of courses for intermediate learners that aims at the acquisition of fluency in the target language. Emphasis is on speaking and understanding, with some attention to reading and writing. The mastery of intermediate skills will be achieved through intensive aural-oral exercises and practice. Students are required to study a textbook and listen to audio tapes prior to meeting with an assigned native-speaking tutor for intensive sessions throughout the semester. Students may arrange to take this course on a non-credit basis.

**FORL 2002 Intermediate Self-Instructional Foreign Language II** 3 cr.

Prerequisite: FORL 2001 or consent of Critical Languages Program Coordinator. A continuation of courses for intermediate learners that aims at the acquisition of fluency in the target language. Emphasis is on speaking and understanding, with some attention to reading and writing. The mastery of intermediate skills will be achieved through intensive aural-oral exercises and practice. Students are required to study a textbook and listen to audio tapes prior to meeting with an assigned native-speaking tutor for intensive sessions throughout the semester. Students may arrange to take this course on a non-credit basis.

**FORL 3001 Advanced Self-Instructional Foreign Language I** 3 cr.

Prerequisite: FORL 2002 or consent of Critical Languages Program Coordinator. A continuation of courses for advanced learners that aims at the acquisition of fluency in the target language. Emphasis is on speaking and understanding, with some attention to reading and writing. The mastery of advanced skills will be achieved through intensive aural-oral exercises and practice. Students are required to study a textbook and listen to audio tapes prior to

meeting with an assigned native-speaking tutor for intensive sessions throughout the semester. Students may arrange to take this course on a non-credit basis.

FORL 3002 Select Foreign Language	3 cr.
FORL 3051 Reading/Discussion 1	3 cr.
FORL 3052 Reading/Discussion 2	3 cr.

## French

Placement of students with high school preparation in French: students with sufficient preparation in French may enter the second, third, or fourth semester course in that language, thus completing the foreign language requirement in fewer semesters. Students interested in taking placement tests should contact the Foreign Language departments. Language courses in the 1001, 1002, 2001, 2002 sequence must be taken in that order.

<b>FREN 1001 Basic French I</b>	3 cr.
Offered each semester. The first in a sequence of courses developing all four language skills: speaking, understanding, writing and reading. Audio-visual items will be used to enhance the process of language acquisition.	
<b>FREN 1002 Basic French II</b>	3 cr.
Offered each semester. Prerequisite: FREN 1001 or consent of department. A continuation of FREN 1001.	
<b>FREN 2001 Intermediate French I</b>	3 cr.
Offered each semester. Prerequisite: FREN 1002 or consent of department. Continuation of the development of all four language skills: speaking, understanding, writing, and reading with special emphasis on the last skill. Audio-visual items will be used to enhance the process of language acquisition.	
<b>FREN 2002 Intermediate French II</b>	3 cr.
Offered each semester. Prerequisite: FREN 2001 or consent of department. Readings and exercises in French. Increased emphasis on the development of advanced reading and translation skills.	
<b>FREN 3002 Practical French Phonetics</b>	3 cr.
Analysis of the phonetic system of French. Intensive practice in the language laboratory (ear training, transcription, and corrective exercises). A consideration of the problems of teaching French pronunciation to English-speaking students.	
<b>FREN 3005 Romance Linguistics</b>	3 cr.
(SPAN 3005 and FREN 3005 are cross-listed) Comparative study of the history, phonology, morphology, and syntax of the principal Romance languages.	
<b>FREN 3031 French Conversation</b>	3 cr.
Prerequisite: FREN 2002 or consent of department. Conversation, oral discussions, interpretations, and reports; practicing the spoken language.	
<b>FREN 3041 Advanced French Grammar</b>	3 cr.
Fall semester. Intensive study of French grammar and syntax. This course is designed primarily for prospective teachers and students concentrating in French.	
<b>FREN 3042 Advanced French Composition and Syntax</b>	3 cr.
Spring semester. Prerequisite: FREN 3041. Drill in original descriptive and narrative composition in the language with attention to style, syntax, idioms, and verb forms.	
<b>FREN 3090 Advanced Practical French</b>	3 cr.
Prerequisite: completion of 12 hours of beginning and intermediate level of the four-skills French sequence FREN 1001, 1002, 2001, 2002, or equivalent credit. Intensive instruction in the French language taught in France or in a French-speaking country and open only to students in the UNO-Montpellier Summer School or similar	

programs. Particular emphasis is placed on oral proficiency, sociolinguistic competence, and cultural awareness.

<b>FREN 3100 Survey of French Literature</b>	3 cr.
A study of the development of French literature from its beginnings to the present. Lectures, readings, and reports. Classes conducted in English. Additional work done in connection with this course may be used by French majors to fulfill the University's oral proficiency requirement.	
<b>FREN 3191 Independent Work</b>	1 cr.
Prerequisite: consent of department. Readings, conferences, and papers under the direction of a member of the faculty. The course allows the student to correlate and supplement the work covered in the departmental courses. Each course may be repeated, but combined credit may not exceed six semester hours.	
<b>FREN 3192 Independent Work</b>	1 cr.
Prerequisite: consent of department. Readings, conferences, and papers under the direction of a member of the faculty. The course allows the student to correlate and supplement the work covered in the departmental courses. Each course may be repeated, but combined credit may not exceed six semester hours.	
<b>FREN 3193 Independent Work</b>	1 cr.
Prerequisite: consent of department. Readings, conferences, and papers under the direction of a member of the faculty. The course allows the student to correlate and supplement the work covered in the departmental courses. Each course may be repeated, but combined credit may not exceed six semester hours.	
<b>FREN 3197 Demonstration of Oral Proficiency</b>	1 cr.
This courses is to be taken concurrently with FREN 3055, 3100, or 3101. The student will be required to present a detailed "explanation de texte" to the professor teaching the course and conduct a discussion with the profession related to the chosen text and receive a pass/fail grade. Successful completion of this course satisfies the general degree requirement of oral competency.	
<b>FREN 3199 Independent Work for Honors Students</b>	3 cr.
Admission by consent of department and the Director of the University Honors Program. Directed research culminating in a written thesis to meet the requirements for graduation with Honors in French, and if appropriate, University Honors.	
<b>FREN 3205 Readings in French Culture and Thought</b>	3 cr.
Prerequisite: FREN 2002 or consent of the department. An introduction to and overview of cultural, artistic, and intellectual activities in France from the reign of Clovis through the era known as Belle Epoque.	
<b>FREN 3402 Masterpieces of French Literature in Translation</b>	3 cr.
(Open to all students including French and French Education majors, for degree credit as an elective.) French works in translation are chosen each time for reading, analysis, and discussion.	
<b>FREN 3403 Special Topics in French Literature</b>	3 cr.
Prerequisite: FREN 2002 or consent of department. A course of introduction to French civilization designed for the "Glories of France" program run by UNO in Montpellier, France during summers. Topics may vary from semester to semester, but they will invariably incorporate some literature of the French South and/or works that deal with the image of the South in French literature. Classes conducted in English. May be repeated once for credit.	
<b>FREN 3404 Special Topics in French Civilization</b>	3 cr.
Prerequisite: FREN 2002 or consent of the department. A course of introduction to French Civilization designed for the "Glories of France" program run by UNO in Montpellier, France during summers. Topics may vary from semester to semester, but they will invariably treat some aspects of the French civilization in the	

- South, its history, literature and artistic traditions. Classes conducted in English. (May be repeated once for credit.)”
- FREN 3406 The Romance Cultures of New Orleans** 3 cr.  
(Cross listed with SPAN 3406) Prerequisite: FREN 2002 or consent of department. A study of the Romance languages used in New Orleans and Louisiana, such as French (Creole and Cajun), Spanish (including the *Islenos*), and Italian (including the *Calebro-Sicilian* dialect), as well as the popular culture based on them: poetry, songs, story-telling and customs for festivals. Taught in English.
- FREN 3500 Tutorial for Graduating Majors** 1 cr.  
This course prepares majors for the completion of their requirements for the B.A. in French. A designated professor will serve as advisor. The course consists of a review of the subjects covered in other required courses, in literature, language/linguistics and civilization. The course concludes with the Written Exit Exam, a comprehensive two-hour exam in French. Prerequisite: 100 hours of course work. Tutorial format. Pass/Fail.
- FREN 3501 French for Research and Graduate Students I** 2 cr.  
A half-semester accelerated and intensive course in French for those with little or no previous study of French, especially designed to develop reading ability. This course will not count toward satisfying the Liberal Arts language requirement. Credit will not be granted for this course and for FREN 1001-1002. Grades will be assigned on a Pass-Fail basis.
- FREN 3502 French for Research and Graduate Students II** 2 cr.  
Prerequisite: FREN 3501. A half-semester accelerated and intensive course in French especially designed to develop reading ability. This course will not count toward satisfying the Liberal Arts language requirement. Credit will not be granted for this course and for FREN 1001-1002. Grades will be assigned on a Pass-Fail basis.
- FREN 4015/G History of the French Language** 3 cr.  
A general survey of the development of the French language from its beginnings to the present day with particular attention to the phonology, morphology, and syntax of Old French. Lectures, reports, and term paper.
- FREN 4031/G Advanced French Conversation** 3 cr.  
Prerequisite: FREN 3031 or equivalent. Intensive practice in the spoken language: conversation, oral discussions, interpretations, and reports. Conducted in French.
- FREN 4041/G Problems of Grammatical Analysis** 3 cr.  
Prerequisite: FREN 3041 or equivalent. Problems of grammatical analysis and contrastive stylistics are discussed on a basis that combines traditional approaches and more recent theories. Application in translation exercises, from and into French, and introduction to literary translation.
- FREN 4051/G Business French** 3 cr.  
Prerequisite: Language proficiency at the 2002 level. Study of fundamental sentence structure and specialized terminology and idioms related to business needs and correspondence; practice in business correspondence; oral exposés and conversations dealing with standard business situations and French economy; and readings from current magazines in economics and international business.
- FREN 4110/G Medieval French Literature** 3 cr.  
Readings in the principal genres from the beginnings to 1500: the epic, the Romance, lyric poetry, and didactic literature.
- FREN 4122/G French Renaissance Literature** 3 cr.  
A study of the major prose writers of the French Renaissance e.g. the prose writers: Rabelais, Marguerite de Navarre, Montaigne; the poets: Marot, Scève, Du Bellay, Ronsard and D'Aubigne. Emphasis will also be given to the currents of French Humanism and Evangelism, and to Pleiade Poetics.
- FREN 4132/G Seventeenth Century French Literature** 3 cr.  
A study of the principal writers of the baroque and classical periods with emphasis on the classical ideal and its formation in the non-theatrical genres.
- FREN 4140/G French Literature of the Eighteenth Century** 3 cr.  
Origins and development of the philosophical movement in France; the novel and the theatre. Montesquieu, Marivaux, Prévost, and Voltaire up to 1750.
- FREN 4154/G French Literature of the Nineteenth Century** 3 cr.  
A study of the major dramatists and dramatic movements of the nineteenth century in France.
- FREN 4156/G French Nineteenth Century Poetry and Selected Prose** 3 cr.  
A study of the major poets and poetic movements of the nineteenth century in France and the major critical and historical writers and their theories.
- FREN 4162/G French Literature of the Twentieth Century** 3 cr.  
A study of the French novelists, playwrights, and poets, as well as the literary movements of the 20th century.
- FREN 4201/G French Civilization I** 3 cr.  
Study of French culture and civilization (history, fine arts, music, architecture, history of ideas, etc.) from its origins to the end of the Renaissance. Readings and discussions in French.
- FREN 4202/G French Civilization II** 3 cr.  
A continuation of FREN 4201 stressing the cultural history of France from the Renaissance to the present day. Readings and discussions in French.
- FREN 4265/G Contemporary French Culture** 3 cr.  
Study of French intellectual and cultural life today: social, economic, and geographical factors; the country and its people; changing trends in contemporary French society and attitudes. Conducted in French.
- FREN 4400/G Children's Literature in French** 3 cr.  
A study of the cultural heritage of stories songs rhymes and games. Selection evaluation and use of books and materials for children.
- FREN 6001 French Stylistics** 3 cr.  
The pragmatic aspects of the French language, i.e., those aspects which go beyond the basic structures (grammatical and lexical) to account for the functioning of a verbal system of communication in a social context. Topics to be studied include stylistic functions of language, stylistic levels, and “sociolects” (elegant versus popular, technical versus argotic), denotation versus connotation, subjectivity in language, speech acts, clichés, and figures of speech.
- FREN 6003 French “Commentaire De Texte”** 3 cr.  
The theory behind and practice in the French method of “commentaire de texte” textual exegesis. In addition to purely literary texts, the method will be applied to the analysis of historical and cultural documents.
- FREN 6007 French Linguistics** 3 cr.  
Advanced study of French phonology, syntax, and semantics within the framework of recent linguistic models, including consideration of solution of major descriptive problems proposed from at least 1900 to the present.
- FREN 6041 Theory and Practice of Translation** 3 cr.  
Advanced aspects of French are illustrated practically through translations selected from the French press, modern colloquial French fiction, and historical literary works. Practical work is complemented by the study of writings of well-known French authors on problems of translation.

<b>FREN 6097 Studies in French Linguistics</b> May be repeated once for credit.	3 cr.	majors cannot receive degree credit for both FTCA 1000 and FTCA 1005.
<b>FREN 6190 Studies in Medieval French Literature</b> May be repeated once for credit.	3 cr.	<b>FTCA 1005 Introduction to Theatre Arts</b> 3 cr. Study of different types of plays from the ancient Greek theatre to the present. Emphasis on interpreting scripts for the stage. Course is designed primarily for students with a focus in theatre arts. FTCA majors cannot receive degree credit for both FTCA 1000 and FTCA 1005.
<b>FREN 6191 Studies in French Renaissance Literature</b> May be repeated once for credit.	3 cr.	
<b>FREN 6192 Studies in Seventeenth-Century French Literature</b> May be repeated once for credit.	3 cr.	<b>FTCA 1100 Technical Production I</b> 3 cr. Offered only in the fall semester. An introduction to the design and execution of scenery, props, and costumes for entertainment design and technology. Four laboratory hours per week required in addition to lecture.
<b>FREN 6193 Studies in Eighteenth-Century French Literature</b> May be repeated once for credit.	3 cr.	
<b>FREN 6194 Studies in Nineteenth-Century French Literature</b> May be repeated once for credit.	3 cr.	<b>FTCA 1110 Basic Visual Design</b> 3 cr. Introduction to the problems and principles of visual design as it applies to film, video, and digital imagery. Two to four laboratory hours per week is required in studio design projects.
<b>FREN 6195 Studies in Twentieth-Century French Literature</b> May be repeated once for credit.	3 cr.	<b>FTCA 1300 Acting I-Beginning</b> 3 cr. An introduction to the art of acting through training imagination, discipline, body, and voice of the beginning actor. Emphasis is on improvisation, exercises related to specific acting techniques, auditions, and scene study.
<b>FREN 6197 Studies in French Literature</b> May be repeated once for credit.	3 cr.	
<b>FREN 6205 French Thought</b> Intellectual history of France. Study of selected texts on the literature of ideas (political and social thought, science, religion and philosophy, and literary movements).	3 cr.	<b>FTCA 1310 Stage Makeup</b> 3 cr. Offered only in fall semester. Prerequisite: consent of department. The study and practice in the techniques of types and styles of makeup for the stage and screen.
<b>FREN 6265 Contemporary French Society and Institutions</b> This course involves the study of aspects of contemporary French society. It focuses on the most recent developments on the French ideological and cultural scene.	3 cr.	<b>FTCA 1620 Introduction to Film Arts</b> 3 cr. An introductory course in film arts that explores visual, audio, and narrative elements that are essential to understanding how films communicate. Required for all FTCA Film Arts Option majors.
<b>FREN 6295 Studies in French Culture and Civilization</b> May be repeated once for credit.	3 cr.	<b>FTCA 1800 Theatre Practicum I</b> 1 cr. Experience in a departmental theatre production. May be repeated for a maximum of three credits.
<b>FREN 6397 Directed Study</b> Readings, conferences, reports, and a research paper under the direction of a member of the graduate faculty. May be repeated once for credit.	3 cr.	<b>FTCA 2000 Field Research in the Arts</b> 1 cr. min./3 cr. max. (FTCA 2000, FA 2000, and MUS 2000 are cross-listed) Prerequisite: consent of department. Special research project in the arts involving field experience and study outside the city of New Orleans. Advance preparation for the project will include conference with or lecture by the faculty and readings in the specific areas to be studied. The study trip will consist of attendance at a minimum of four theatrical or musical performances or a minimum of eight hours spent in visits to exhibits or museums for each hour of credit. A follow-up paper on a research topic inspired by the trip will be required. May be repeated for up to six hours of credit. Credit will be given for only FTCA 2000, FA 2000, or MUS 2000 for the same trip.
<b>FREN 6650 Special Topics in French Civilization</b> Prerequisite: FREN 2002 or consent of department. A course of introduction to French civilization designed for the "Glories of France" program run by UNO in Montpellier, France during summers. Topics may vary from semester to semester, but they will invariably treat some aspects of the French civilization in the South, its history, literature and artistic traditions. Classes conducted in English. May be repeated once for credit.	3 cr.	<b>FTCA 2060 3D Animation Lab</b> 1 cr. Prerequisites: FTCA 2550 or 2510 and consent of the department. Demonstration and practice of mapping, materials, lighting, atmosphere, virtual cameras, and animation.
<b>FREN 7000 Thesis Research</b> To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.	1 cr. min./9 cr. max.	<b>FTCA 2090 Special Topics in Film, Theatre and Communication Arts</b> 1 cr. Prerequisite: consent of department. Each course is offered for one-third of a semester. Three hours of lecture and six hours of laboratory weekly, depending on topics. Topics carry from semester to semester. Individual course numbers may not be repeated.
<b>FREN 7040 Examination or Thesis Only</b> No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.	0 cr.	<b>FTCA 2091 Special Topics in Film, Theatre and Communication Arts</b> 1 cr. Prerequisite: consent of department. Each course is offered for one-third of a semester. Three hours of lecture and six hours of

## Film, Theatre and Communication Arts

**FTCA 1000 Theater Appreciation** 3 cr.  
Offered every semester. An appreciation and analysis of theatre. Focus is on the artists and technicians who create theatre and the components involved in the production process. The course does not involve the actual production of a play or performance. FTCA

Prerequisite: consent of department. Each course is offered for one-third of a semester. Three hours of lecture and six hours of

- laboratory weekly, depending on topics. Topics carry from semester to semester. Individual course numbers may not be repeated.
- FTCA 2092 Special Topics in Film, Theatre and Communication Arts** 1 cr.  
Prerequisite: consent of department. Each course is offered for one-third of a semester. Three hours of lecture and six hours of laboratory weekly, depending on topics. Topics carry from semester to semester. Individual course numbers may not be repeated.
- FTCA 2100 Technical Production II** 3 cr.  
Offered only in the spring semester. Introduction to design and execution of lighting, sound, and projections for entertainment design and technology. Four laboratory hours per week required in addition to lecture.
- FTCA 2120 Methods and Materials of Stagecraft** 3 cr.  
Prerequisite: FTCA 1110 and 2100. Basic techniques in the practical use of tools, materials, and equipment for stage, screen, and television settings. Three to five laboratory hours per week required in current departmental productions in addition to lecture.
- FTCA 2160 Costume Crafts and Techniques** 3 cr.  
Prerequisite: FTCA 1100 and 2100. Techniques in construction of costumes for stage and screen including pattern drafting and cutting and work with various synthetic and experimental materials. Three to five laboratory hours per week required in current departmental productions in addition to lecture.
- FTCA 2200 Introduction to Playwriting** 3 cr.  
Prerequisite: FTCA 1005. A consideration of the art and craft of writing for the theatre. Study of playwriting as a literary genre; writing of one-act plays.
- FTCA 2250 Introduction to Screenwriting** 3 cr.  
Prerequisite: FTCA 1620 and ENGL 1158. A consideration of the art and craft of writing for the screen. Students will write short film scripts using techniques that emphasize narrative storytelling.
- FTCA 2260 Writing Short Film** 3 cr.  
Writing screenplays for short films. Students will develop cinematic storytelling skills such as dialogue, scene construction, and revision. Emphasis placed on writing scripts for future UNO productions.
- FTCA 2270 Introduction to Video Writing** 3 cr.  
Prerequisite: FTCA 1620. An introductory study of split-page writing techniques and styles for video. Material may include short scenes, commercials, public service announcements, short documentaries, and field video segments.
- FTCA 2300 Voice Training for the Actor - I** 3 cr.  
Prerequisite: FTCA 1300. The construction of an aesthetic philosophy of voice for the actor. This study will include exercises in the techniques of effective stage speech with an emphasis on discipline, self-awareness used to attain control, flexibility, and natural vocal abilities for use in media and on the stage.
- FTCA 2320 Script Analysis** 3 cr.  
Prerequisite: FTCA 1005 or FTCA 1620. Lecture and group discussion focusing on techniques of script analysis. Selected scenes and a variety of scripts will be examined.
- FTCA 2330 Acting II Intermediate** 3 cr.  
Prerequisite: FTCA 1300 or consent of department. Intensive training in the fundamental process of preparing a role including self-knowledge, script analysis, and the application of techniques of objective/action/motivation in characterization. Improvisation, critiques, exercises, performance attendance, and scene study.
- FTCA 2335 Performance for the Camera** 3 cr.  
An introduction to acting for the camera for the beginning performer. Analysis and application of performance techniques for one-camera setups using a variety of materials from television commercials to short scenes.
- FTCA 2380 Directing I - Beginning** 3 cr.  
Prerequisite: FTCA 1300 or consent of department. Fundamentals of script interpretation and directing.
- FTCA 2510 Introduction to Cinema Techniques** 3 cr.  
Fundamentals of motion picture production. Short films are produced, edited, screened, and analyzed. Attention is also given to professional film-making techniques. Two hours lecture and two hours laboratory.
- FTCA 2550 Introduction to Television Techniques** 3 cr.  
Fundamentals of television programming and production. Scripting, camera, and directing techniques are stressed. Short video tapes are produced and analyzed by the class. One hour of lecture and four hours of laboratory.
- FTCA 2560 Field Video Production** 3 cr.  
An introduction to the applications and techniques of field video production. Students develop an understanding of basic video production techniques, applying planning, shooting, and editing methods used in electronic news gathering and electronic field production for various purposes, including news, documentary, educational, narrative, sales promotion, and experimental video projects.
- FTCA 2565 Introduction to Digital Technology** 3 cr.  
Prerequisite: FTCA 2510. An introduction to the applications and techniques of digital imaging technology. Students develop an understanding of the fundamentals of computer postproduction applications as they relate to film and video image/sound recording. Two hours lecture and two hours lab.
- FTCA 2650 Oral Communications** 3 cr.  
An introductory course in oral communications. Chief emphasis is on communication to the small group. Attention is given to public speaking, interpersonal communication, interviewing, and group discussion.
- FTCA 2660 Discussion and Debate** 3 cr.  
Prerequisite: FTCA 2650. Introduction to the fundamentals of public debate and group discussion. Successful completion of this satisfies the general degree requirement for oral competency.
- FTCA 2695 Women and the Media** 3 cr.  
The course focuses on media created by, for, and about women, exploring all areas of print and electronic media including newspapers, radio, television, the internet, advertising, movies and recordings. The class examines the images of women featured in the media, the careers of women working in the media industries, and media created primarily to serve female preferences and appeal to female consumers.
- FTCA 2770 Promotion, Publicity, and Propaganda in the Mass Media** 3 cr.  
Procedures and theories of mass persuasion in the media. Attention is given to the manner in which such devices as radio and television commercials and dramatic shows, films, and various print media are used to influence mass behavior.
- FTCA 2771 Media Graphics** 3 cr.  
Prerequisite: FTCA 1110 or FA 1011 or consent of department. An introductory study of the methods of design and layout for the mass media. Four to six laboratory hours per week are required in studio design projects.
- FTCA 2791 Independent Study** 1 cr.  
(FTCA 2791 and JOUR 2791 are cross-listed) Admission by consent of department. Reading, conferences, and preparation of articles,

- reports, and special projects concerning print journalism under direction of a member of the journalism faculty.
- FTCA 2792 Independent Study** 1 cr.  
(FTCA 2791 and JOUR 2791 are cross-listed) Admission by consent of department. Reading, conferences, and preparation of articles, reports, and special projects concerning print journalism under direction of a member of the journalism faculty.
- FTCA 2793 Independent Study** 1 cr.  
(FTCA 2791 and JOUR 2791 are cross-listed) Admission by consent of department. Reading, conferences, and preparation of articles, reports, and special projects concerning print journalism under direction of a member of the journalism faculty.
- FTCA 2800 Production Practicum** 1 cr. min./2 cr. max.  
Crew experience in a departmental production. May be repeated for a maximum of 4 credits.
- FTCA 2830 Stage Movement for the Actor - I** 3 cr.  
Prerequisite: FTCA 1300. The construction of an aesthetic philosophy of movement for the actor. Emphasis on relaxation, self-awareness, flexibility, and imagination to develop characterization for use in the media and on stage.
- FTCA 2950 Stage Management for the Theater** 3 cr.  
Traces the process and tools for the professional stage manager from pre-production work through closing night. The student will, upon completion of the course, be capable of steering a production through its various stages.
- FTCA 3060 Intermediate 3D Animation Lab** 1 cr.  
Prerequisite: FTCA 2060 and consent of department. Students will design and produce a narrative 3D computer animation of thirty to sixty seconds, with sound. May be repeated once.
- FTCA 3061 Advanced 3D Animation Lab** 1 cr.  
Prerequisite: FTCA 3060 and consent of the department. Student is introduced to pre-production dynamics within the animation team. Lab members will develop concept, storyboard, and object meshes for a 3D computer animation collaborative project. May be repeated once.
- FTCA 3062 Collaborative Animation Lab** 2 cr.  
Prerequisite: FTCA 3061 and consent of department. Advanced animation lab team will design, direct, light, animate, and render a major animation project for submission to a regional or national animation festival. May be repeated once.
- FTCA 3063 Senior Animation Lab** 1 cr.  
Prerequisite: FTCA 3062 and consent of department. Development of concept, pre-production storyboards, object meshes, textured objects, and lighting for final senior animation project.
- FTCA 3064 Senior Animation Project** 3 cr.  
Prerequisite: FTCA 3063 and consent of department. Limited to students of senior standing. Students will complete production work developed in FTCA 3063 Senior Animation Lab. Work will be submitted to regional and national animation festivals and become a mandatory senior animation portfolio piece.
- FTCA 3090 Independent Study** 1 cr.  
Prerequisite: consent of department. Readings, conferences, and reports under the direction of a member of the drama and communications faculty.
- FTCA 3091 Independent Study** 1 cr.  
Prerequisite: consent of department. Readings, conferences, and reports under the direction of a member of the drama and communications faculty.
- FTCA 3092 Independent Study** 1 cr.  
Prerequisite: consent of department. Readings, conferences, and reports under the direction of a member of the drama and communications faculty.
- FTCA 3098 Senior Practicum** 1 cr.  
Prerequisite: 21 hours of Film, Theatre and Communications Arts courses. Required of all senior Film, Theatre and Communications Arts majors. Practical work in theatre and media.
- FTCA 3099 Senior Honors Thesis** 3 cr.  
Prerequisite: consent of department and the honors program. Directed research under a Film, Theatre and Communications Arts faculty member culminating in a written thesis to meet the requirements for graduation with Honors in Film, Theatre and Communications Arts, and, if applicable, University Honors. May be repeated once for credit. Offered fall and spring semesters only.
- FTCA 3330 Acting III – Advanced** 3 cr.  
Fall semester. Prerequisite: FTCA 2330 or consent of department. Intensive training in actor's methods of character development, moment-to-moment reality, and rehearsal principles. Extensive critiques, exercises, and scene study. May be repeated once for credit.
- FTCA 3400 Cultural Diversity in Film & Theatre** 3 cr.  
An introduction to and survey of the evolution of cultural diversity in film and on the stage. Representative screen and stage examples will be presented. Students will be required to view films and stage productions outside of regularly scheduled class meetings.
- FTCA 3460 Introduction to Documentary Production** 3 cr.  
Prerequisites: FTCA 2510 and FTCA 2565. An introduction to the fundamental of writing, producing, directing, and editing the documentary film. Students develop an understanding of the aesthetic dimensions of documentary film and learn the craft of documentary film making through production assignments, critiques, and film analysis. Three hours lecture and two hours lab.
- FTCA 3510 Intermediate Film Production** 3 cr.  
Prerequisites: FTCA 2260, 2510, and 2565. Intermediate-level filmmaking involving double-system motion picture production techniques. Students produce and direct professional double-system motion pictures using various capturing formats. Two hours lecture and one hour laboratory each week.
- FTCA 3520 Intermediate Film Post Production** 3 cr.  
Prerequisite: FTCA 3510 or equivalent course in double-system motion picture production. At an intermediate level, each student edits the footage, engineers the audio, and completes the post-production details of the film shot in FTCA 3510. Two hours of lecture and one hour of laboratory each week.
- FTCA 3595 Academic Year Abroad: Special Topics in Film, Theatre and Communications Arts** 3 cr.  
This course is only offered through UNO's Academic Year Abroad (AYA) in Innsbruck, Austria and can be repeated once for credit.
- FTCA 3760 Educational Journalism** 3 cr.  
(FTCA 3760 and JOUR 3760 are cross-listed) The editorial, business, and mechanical techniques of producing school publications. Designed for school publications advisers.
- FTCA 3800 Production Practicum** 1 cr. min./2 cr. max.  
Technical or performance experience in presenting a production.
- FTCA 4080/G Advanced Summer Theatre Workshop** 3 cr.  
Study and participation in UNO summer theatre productions. Lectures, discussion, and practical experience either backstage, on-stage, or both. Enrollment by consent of department. (FTCA 4080 and 4081 may not be taken simultaneously.) Required weekly

- laboratory hours on current departmental productions vary according to responsibilities.
- FTCA 4081/G Advanced Summer Theatre Workshop** 3 cr.  
Study and participation in UNO summer theatre productions. Lectures, discussion, and practical experience either backstage, on-stage, or both. Enrollment by consent of department. (FTCA 4080 and 4081 may not be taken simultaneously.) Required weekly laboratory hours on current departmental productions vary according to responsibilities.
- FTCA 4090/G Special Topics in Film, Theatre and Communication Arts** 1 cr.  
Prerequisite: consent of department. Each course is offered for one-third of a semester. Three hours of lecture or six hours of laboratory weekly. Topics vary from semester to semester, therefore, individual course numbers may be repeated. A maximum total number of no more than six hours credit may be earned from the entire Special Topics group, 4090-2, 4093-5.
- FTCA 4091/G Special Topics in Film, Theatre and Communication Arts** 1 cr.  
Prerequisite: consent of department. Each course is offered for one-third of a semester. Three hours of lecture or six hours of laboratory weekly. Topics vary from semester to semester, therefore, individual course numbers may be repeated. A maximum total number of no more than six hours credit may be earned from the entire Special Topics group, 4090-2, 4093-5.
- FTCA 4092/G Special Topics in Film, Theatre and Communication Arts** 1 cr.  
Prerequisite: consent of department. Each course is offered for one-third of a semester. Three hours of lecture or six hours of laboratory weekly. Topics vary from semester to semester, therefore, individual course numbers may be repeated. A maximum total number of no more than six hours credit may be earned from the entire Special Topics group, 4090-2, 4093-5.
- FTCA 4093/G Special Topics in FTCA** 1 cr.  
Prerequisite: consent of department. Each course is offered for one-third of a semester. Three hours of lecture or six hours of laboratory weekly depending on topic. Topics vary from semester to semester, therefore, individual course numbers may be repeated. A maximum total number of no more than six hours credit may be earned for the entire Special Topics group, 4090-2, 4093-5.
- FTCA 4094/G Special Topics in FTCA** 1 cr.  
Prerequisite: consent of department. Each course is offered for one-third of a semester. Three hours of lecture or six hours of laboratory weekly depending on topic. Topics vary from semester to semester, therefore, individual course numbers may be repeated. A maximum total number of no more than six hours credit may be earned for the entire Special Topics group, 4090-2, 4093-5.
- FTCA 4095/G Special Topics in FTCA** 1 cr.  
Prerequisite: consent of department. Each course is offered for one-third of a semester. Three hours of lecture or six hours of laboratory weekly depending on topic. Topics vary from semester to semester, therefore, individual course numbers may be repeated. A maximum total number of no more than six hours credit may be earned for the entire Special Topics group, 4090-2, 4093-5.
- FTCA 4096/G Special Topics in Film Production** 3 cr.  
Prerequisite: FTCA 2510 and 4510 or consent of department. The course will meet for three hours of lecture or six hours of laboratory each week, depending upon the topic. Topics will vary from semester to semester, and the course may be repeated once for credit.
- FTCA 4110/G Scene Design** 3 cr.  
Prerequisites: FTCA 1100 and 2100. Principles and techniques of design as related to stage scenery, including the planning and execution of the design. Four to six laboratory hours per week required in studio design projects.
- FTCA 4120/G Scene Painting** 3 cr.  
Prerequisites: FTCA 1100 and 2100. Studio projects in the painting of architectural and natural styles of stage scenery. Four to six laboratory hours per week required in studio design projects.
- FTCA 4125/G Development of Style and Form** 3 cr.  
Prerequisites: FTCA 1100 and 2100. A study of the history of theatrical design styles, including architectural form, from Greek influences to the present.
- FTCA 4135/G Rendering Techniques** 3 cr.  
An exploration of styles and techniques for rendering designs for scenery, costumes, and lights.
- FTCA 4140 Costume Design** 3 cr.  
Principles and techniques for the design of costumes, including the planning and execution of the design. Four to six hours per week required in studio design projects.
- FTCA 4140/G Costume Design** 3 cr.  
Principles and techniques for the design of costumes, including the planning and execution of the design. Four to six hours per week required in studio design projects.
- FTCA 4150 Development of Fashion** 3 cr.  
A study of Western fashion from the Greek period to the late 19th century. Emphasis on exploring why and how fashion changed and developed, and how society, fashion and culture influenced each other. The shapes, silhouettes and lines of the clothing from each period will be studied.
- FTCA 4150/G Development of Fashion** 3 cr.  
A study of Western fashion from the Greek period to the late 19th century. Emphasis on exploring why and how fashion changed and developed, and how society, fashion and culture influenced each other. The shapes, silhouettes and lines of the clothing from each period will be studied.
- FTCA 4160 Lighting Crafts and Techniques** 3 cr.  
Prerequisites: FTCA 1100 and 2100. Basic principles and techniques for use of lighting instruments, filters, and control technology. Three to six laboratory hours per week required in current departmental productions in addition to lecture.
- FTCA 4160/G Lighting Crafts and Techniques** 3 cr.  
Prerequisites: FTCA 1100 and 2100. Basic principles and techniques for use of lighting instruments, filters, and control technology. Three to six laboratory hours per week required in current departmental productions in addition to lecture.
- FTCA 4170 Lighting Design** 3 cr.  
Prerequisites: FTCA 1110 and 2100. The study of the use and capabilities of light in dramatic production. Four to six laboratory hours per week required in current departmental productions in addition to lecture.
- FTCA 4170/G Lighting Design** 3 cr.  
Prerequisites: FTCA 1110 and 2100. The study of the use and capabilities of light in dramatic production. Four to six laboratory hours per week required in current departmental productions in addition to lecture.

- FTCA 4200 Advanced Playwriting** 3 cr.  
Prerequisite: FTCA 2200 or consent of department. Advanced studies in playwriting. Writing of original scripts for possible production. May be repeated once for credit.
- FTCA 4200/G Advanced Playwriting** 3 cr.  
Prerequisite: FTCA 2200 or consent of department. Advanced studies in playwriting. Writing of original scripts for possible production. May be repeated once for credit.
- FTCA 4251/G Advanced Screenwriting** 3 cr.  
Prerequisite: FTCA 2250 or 2260 or consent of department. Advanced studies in writing original scripts for film. May be repeated once for credit.
- FTCA 4260/G Styles in Theatrical Production** 3 cr.  
Analysis and discussion of selected dramatic scripts with emphasis on problems of style and production technique. Attendance at selected theatrical productions is required.
- FTCA 4265/G Computer Aided Drafting and Design for the Performing Arts** 3 cr.  
Prerequisites: FTCA 2265 or equivalent course work or consent of department. A course for students with a background in technical production, in theater, film, and video. Students will learn how to use the computer to aid in drawing, drafting, designing, and printing their work. The course is structured around the Macintosh computer and will use the MacDraw and CAD software along with plans, sketches, elevations, and a choice of scenic perspectives, lighting plots, or costume patterns. Students will also be allowed to explore CAD alternatives such as those available for IBM and compatible computers. The class will be a combination lecture and laboratory. Graduate students are required to complete original design projects and have a public showing of their work in a portfolio presentation.
- FTCA 4300/G Advanced Voice for the Actor** 3 cr.  
Prerequisite: FTCA 1300 or consent of department. Advanced work in vocal artistry for the actor. May be repeated once for credit. Attention is given to work in oral characterization ethnic dialects historical modes and styles of delivery and special vocal problems such as the actor-singer and the actor in chorus reading.
- FTCA 4301/G Voice Stylization for the Screen** 3 cr.  
Restricted course: consent of department. Practicum in the creation of stylized voice characterization for digital media. Students will apply characterizations to voiceover and lip-sync recording techniques for animation and television commercials. Two hours lecture and two hours lab.
- FTCA 4330/G Acting Styles** 3 cr.  
Prerequisite: FTCA 2330 or consent of department. Examination of actor's methods of characterization and script analysis applied to major styles of theatre. Content of course varies. May be repeated once for credit.
- FTCA 4333/G Combat for Stage and Film** 3 cr.  
Prerequisite: FTCA 1300. Performance class that allows the student to learn the fundamentals for hand-to-hand combat techniques. These techniques will be taught within an atmosphere of safety that is essential for the stage.
- FTCA 4335/G Audition Techniques** 3 cr.  
Prerequisites: FTCA 2330 or consent of the department. The study of specific audition techniques for stage and screen performers. Emphasis on prepared monologues, cold readings, interviews, picture/resume, and performance contracts. Successful completion if this course satisfies the general degree requirement for oral competency.
- FTCA 4380/G Directing II Advanced** 3 cr.  
Prerequisite: FTCA 2380 or consent of department. Intensive study of director's methods of rehearsal techniques, script analysis, casting and interpretation. Direction of scenes and/or one-act play. May be repeated once for credit.
- FTCA 4400/G Development of Theatre** 3 cr.  
Prerequisite: FTCA 1005. A survey of the theatre history.
- FTCA 4450/G Modern Theatre** 3 cr.  
Consent of department required for non-FTCA majors. Intensive study of the pioneers of the modern stage, from Ibsen and Chekhov through Shaw. Emphasis on plays from a production point of view.
- FTCA 4455/G Contemporary Theatre** 3 cr.  
Consent of department required for non-drama majors. Advanced study of the current trends affecting theatre from a local, national and international point of view. These trends will be examined by exploring the literature of the contemporary theatre.
- FTCA 4460/G Advanced Documentary Production** 3 cr.  
Prerequisite: FTCA 3460 or consent of department. Students produce advanced documentary film projects. Three hours lecture and two hours laboratory. May be repeated once for credit.
- FTCA 4500/G Film Development and Planning** 3 cr.  
Prerequisite: FTCA 2510 or 2550 or consent of the department. Two hours lecture and two hours lab. Students develop original ideas for a short film from screenplay through preproduction planning. Required for FTCA 4530.
- FTCA 4510/G Film Production** 3 cr.  
Prerequisites: FTCA 2510 or consent of department. Advanced problems in double-system motion picture production techniques. Students direct professional double-systems motion pictures. Two hours lecture and two hours laboratory each week.
- FTCA 4520/G Film Postproduction** 3 cr.  
Prerequisite: FTCA 4510 or equivalent. Motion picture production. Students edit, engineer sounds tracks and complete films which were produced in FTCA 4510. Two hours lecture and two hours laboratory.
- FTCA 4530/G Advanced Project in Film Production** 3 cr.  
Prerequisite: FTCA 4500 and either 4520 or 3520, or consent of department. Students will produce a major film project, prepare a critical analysis of their production, and present a public screening of the production. Six hours of studio work. This course may be taken 3 times for a maximum total of 9 credit hours.
- FTCA 4540/G Development of the Cinema I** 3 cr.  
Prerequisite: FTCA 1620. A history of the development of the cinema from its beginnings to the 1948 Paramount decision by the U.S. Supreme Court. Emphasis on the artistic, social, economic, and technical phenomena that have influenced the growth of both American and international films. Important representative films will be screened and discussed. Two to three hours of laboratory/screening attendance are required per week in addition to lecture.
- FTCA 4541/G Development of the Cinema II** 3 cr.  
Prerequisite: FTCA 1620. A history of the development of the cinema from the 1948 Paramount decision until the present day. Emphasis on the artistic, social, economic, and technical phenomena that have influenced the growth of American and international films. Important representative films will be screened and discussed. Two to three hours of laboratory/screening attendance are required per week in addition to lectures.
- FTCA 4545/G Film Theory and Criticism** 3 cr.  
Prerequisite: FTCA 1620. Basic theories of film modes and structures will be analyzed. Development of bases for the study of film as a

- communicative and aesthetic form. Two to three hours of laboratory/screening attendance are required per week in addition to lecture.
- FTCA 4550/G Cinematography** 3 cr.  
Prerequisite: FTCA 3510 or consent of the department. Advanced studies in lighting and camera for cinema. Two hours lecture and two hours lab.
- FTCA 4551/G Spring Film Crew** 1 cr.  
Students crew on a group film project that is led by advanced students and industry professionals, including UNO faculty members. Responsibilities are limited to the production phase of the shoot that normally occurs during spring break. The course may be repeated three times for credit.
- FTCA 4555/G Spring Film Production** 3 cr.  
Students crew on a group film project that is led by advanced students and industry professionals, including UNO faculty members. Students are expected to participate in planning and management of the film and assume responsibility in the annual department production. The course may be repeated three times for credit.
- FTCA 4560/G Advanced Television Production** 3 cr.  
Offered only in the spring semester. Prerequisite: FTCA 2550. Advanced problems in television production with special consideration to the work of the television producer-director. Attention will be paid to the types of TV informational programs including news programs, documentaries, broadcast magazines, interviews, press conferences, talk shows, and instructional programs.
- FTCA 4565/G Digital Theory and Application for Film and Video** 3 cr.  
Prerequisite: FTCA 2510 or consent of department. The practical application of advanced technical theories and emerging technologies fundamental to the creation and manipulation of digital audio and video projects. Two hours lecture and two hours lab.
- FTCA 4566/G Production Sound for Film** 3 cr.  
Prerequisite: FTCA 3510 or consent of the department. Advanced studies in production sound for film, including digital recording technology, understanding time code, and advanced miking and production mixing techniques. Two hours lecture and two hours lab.
- FTCA 4567/G Post Production Sound for Film and Video** 3 cr.  
Prerequisite: FTCA 3520 (undergraduates) or FTCA 6520 (graduates), or consent of the department. Advanced studies in post production sound technology and technique. Two hours lecture and two hours lab.
- FTCA 4568/G Special Topics in Visual Effects** 3 cr.  
Prerequisite: FTCA 2510, FTCA 4565 and the consent of the department. An intensive exploration of the current and emerging technology and software necessary for the creation of the current media visual effects. May be repeated.
- FTCA 4570/G Acting for the Camera** 3 cr.  
Prerequisite: FTCA 1300 or consent of department. A study in acting before the camera lens emphasizing moment-to-moment techniques. Two hours lecture and two hours lab. (May be repeated once for credit.)
- FTCA 4575/G Advanced Post Production** 3 cr.  
Prerequisites: FTCA 3520 or 4520. Advanced-level motion picture editing procedures and techniques. Students edit segments of episodic television and longer formatted materials using professional techniques and equipment.
- FTCA 4580/G Film Directing** 3 cr.  
Prerequisite: FTCA 2510 and 4510 or consent of the department. Advanced training in single camera directing techniques with emphasis on filming the narrative script and on the director's relationship with the actor. Two hours of lecture and two hours of lab.
- FTCA 4591/G Film Styles and Genres** 3 cr.  
Prerequisites: FTCA 4545 or consent of department. An examination of the Motion Picture in terms of various groupings such as Genre, Style, and Authorship. Topic will differ from semester to semester. A laboratory fee is required for this course. May be repeated once for credit.
- FTCA 4670/G Mass Media and the Law** 3 cr.  
Offered only in the fall semester. Social, ethical, and legal responsibilities of the mass media and entertainment arts.
- FTCA 4696/G Washington Center Internship** 6 cr.  
The Washington, D.C. Internship Program is offered in cooperation with the Washington Center for Internships and Academic Seminars. Students of junior-level or higher standing and a grade-point average of 2.5 or better are eligible to participate in the Program. The program is conducted in Washington, D.C. and consists of an internship of four-and-a-half workdays per week, a three-hour course one night a week, and a major research paper. Participants can earn 12 credit hours during a fall or spring semester (nine hours in summer).
- FTCA 4697/G Washington Center Internship** 3 cr.  
The Washington, D.C. Internship Program is offered in cooperation with the Washington Center for Internships and Academic Seminars. Students of junior-level or higher standing and a grade-point average of 2.5 or better are eligible to participate in the Program. The program is conducted in Washington, D.C. and consists of an internship of four-and-a-half workdays per week, a three-hour course one night a week, and a major research paper. Participants can earn 12 credit hours during a fall or spring semester (nine hours in summer).
- FTCA 4698/G Washington Center Independent Research** 3 cr.  
The Washington, D.C. Internship Program is offered in cooperation with the Washington Center for Internships and Academic Seminars. Students of junior-level or higher standing and a grade-point average of 2.5 or better are eligible to participate in the Program. The program is conducted in Washington, D.C. and consists of an internship of four-and-a-half workdays per week, a three-hour course one night a week, and a major research paper. Participants can earn 12 credit hours during a fall or spring semester (nine hours in summer).
- FTCA 4700/G Advanced Journalism** 3 cr.  
Prerequisites: JOUR 2700; ENGL 2155; or consent of department. Writing-intensive study in advanced news reporting, news writing, and news editing.
- FTCA 4830/G Advanced Stage Movement** 3 cr.  
Study and exercise in the techniques of effective stage movement including compositional creativity, flexibility, and imagination to develop stage presence. (May be repeated once for credit.)
- FTCA 4831/G Advanced Movement Applications** 3 cr.  
Prerequisite: consent of department. Practicum in character development for stage and screen through advanced physicalization techniques and computer-based motion capture technology. Students will create live and recorded movement characterizations for film/video special effects, 3D animation, and live stage productions. Two hours lecture and two hours lab.

- FTCA 4900/G Internship in Film, Theatre and Communication Arts** 3 cr.  
Offered in the fall and spring semesters only. Prerequisite: consent of department. Each semester the department makes available a limited number of internships with theatres, radio and television stations, film studios, the city of New Orleans, and other drama and communication arts-related agencies. Interns usually work 15 hours a week at times mutually agreeable to the individual and the agency. In addition, interns must attend discussion sessions on campus and complete written assignments. The intern's work will be evaluated by both the agency supervisor and the course instructor.
- FTCA 6000 Practicum in Research** 3 cr.  
Practical work in research tools in preparation for written thesis requirements.
- FTCA 6001 Practicum in Production** 3 cr.  
Participation in weekly seminar and independent practical work in acting, design, directing, stage management, cinematography, and television.
- FTCA 6005 Graduate Studies Orientation** 0 cr.  
No credit. Required on-line colloquium for all FTCA graduate students each semester until graduation. Electronic communication and dispersal of information via blackboard that is pertinent to first, second, and third year graduate students in the department.
- FTCA 6020 Form and Idea in the Media** 3 cr.  
An exploration of the relationship between the creative idea, the form of its expression and the medium for its presentation. Examples will be studied from theatre, film and television. The collaboration of the contributing artists will be investigated and the process of script analysis, directing methods, and production techniques for the different media will be compared and contrasted.
- FTCA 6040 Performance and Direction** 3 cr.  
Prerequisite: Consent of department. This practicum is designed to encourage and expand creative and collaborative opportunities between theatre and film artists. By focusing on selected interdisciplinary scene work, the course will identify and explore the shared principles utilized in the acting and directing process of stage and screen."
- FTCA 6060 Concept, Conflict & Character** 3 cr.  
Prerequisite: Consent of department. A study of the fundamentals of script analysis as they relate to the director's formulation of concept, identification of conflict and understanding of character behavior. Focusing on selected film and play scripts, lectures and seminars will emphasize the application of similar methodologies employed by directors and actors in both film and theatre.
- FTCA 6090 Directed Independent Study** 3 cr.  
Prerequisite: consent of department. Specialized study and research on some aspect of drama, film, or television. This course may be repeated up to six hours.
- FTCA 6100 Visual Design for Stage Screen and Television** 3 cr.  
Prerequisite: consent of department. Specialized study and research on some aspect of drama, film, or television. This course may be repeated up to six hours.
- FTCA 6110 Seminar in Scenic Design** 3 cr.  
Advanced studies, research, and practice of scene design for the theatre, which will include portfolio development, study of contemporary trends, examination of current job opportunities and requirements, and designing scenery for a specific production. May be repeated once for credit.
- FTCA 6120 Scene Painting** 3 cr.  
Prerequisite: FTCA 4110 and 4120. Through studio projects students will develop skills in painting of architectural and natural styles of stage scenery. Four to six laboratory hours per week are required.
- FTCA 6125 Development of Style and Form** 3 cr.  
A study of the history of theatrical design styles including architectural form, from Greek influences to the present. Individual research projects and presentations relating to periods and styles of art will be required.
- FTCA 6135 Rendering Techniques** 3 cr.  
An exploration of styles and techniques for rendering designs for scenery, costumes, and lights. May be repeated once for credit.
- FTCA 6140 Seminar in Theatrical Costuming** 3 cr.  
Studies and practice in modern costume techniques which will include portfolio preparation, contemporary techniques, and a survey of current job practices and marketability. May be repeated once for credit.
- FTCA 6150 Development of Fashion** 3 cr.  
The study of Western fashion from the Greek period to the late 19th Century. Emphasis on exploring why and how fashion changed and developed and how society, fashion and culture influenced each other. The shapes, silhouettes and lines of clothing from each period will be studied.
- FTCA 6170 Seminar in Lighting Design** 3 cr.  
Studies and practice in modern lighting techniques, which will include portfolio preparation, contemporary techniques in design, and a survey of current job practices and marketability. May be repeated once for credit.
- FTCA 6200 Seminar in Playwriting** 3 cr.  
Prerequisite: FTCA 4200 or consent of department. Studies and practice in writing plays for the live theatre stage. Students should have written at least one play before enrolling in this class. May be repeated for credit.
- FTCA 6207 Intensive Seminar in Playwriting** 3 cr.  
Prerequisite: FTCA 4200 or consent of department. Studies and practice in writing plays for the live theatre stage, taught in an intensive (short term) format in residence. Students should have written at least one play before enrolling in this class. May be repeated for credit.
- FTCA 6209 Remote Seminar in Playwriting** 3 cr.  
Prerequisite: FTCA 4200 or consent of the department. Studies in practice in writing plays for the live theatre stage taught via distance learning techniques. Students should have written at least one play before enrolling in this class. May be repeated for credit.
- FTCA 6250 Seminar in Screenwriting** 3 cr.  
Prerequisite: FTCA 4500 consent of department. Studies and practice in writing scripts for film and television. Students should have written at least one screenplay before enrolling in this class. May be repeated once for credit.
- FTCA 6257 Intensive Seminar in Screenwriting** 3 cr.  
Prerequisite: FTCA 4200 or 4521 or consent of department. Studies and practice in writing scripts for film and television taught in an intensive (short term) format in residence. Students should have written at least one screenplay before enrolling in this class. May be repeated for credit.
- FTCA 6259 Remote Seminar in Screenwriting** 3 cr.  
Prerequisite: FTCA 4200 or FTCA 4521 or consent of department. Studies and practice in writing scripts for film and television, taught via distance learning techniques. Students should have writ-

- ten at least one screenplay before enrolling in this class. May be repeated once for credit.
- FTCA 6330 Acting** 3 cr.  
Prerequisite: consent of department. Designed for students in the MFA Performance Program. Intensive training in characterization and performance techniques. Content of course varies per offering. May be repeated up to three times for credit.
- FTCA 6380 Directing** 3 cr.  
Prerequisite: consent of department. Designed for students in the MFA Performance Program. Intensive training in directing techniques. May include technical assignments in department productions. Direction of one-act or full length play in laboratory production. May be repeated twice for credit.
- FTCA 6420 Problems in Performing and Visual Arts** 3 cr.  
The application of mise-en-scene analysis techniques to theatre film or video productions.
- FTCA 6460 Aesthetics of Script Analysis** 3 cr.  
Intensive study of selected scripts as the basis of forming aesthetic theories of analysis. Students are required to compare written scripts with productions in theatre or film.
- FTCA 6510 Narrative Film Production** 3 cr.  
Studies and practices in producing and shooting double-system narrative film projects. Students should have basic courses in post-production, screenwriting and production prior to enrolling.
- FTCA 6520 Narrative Film Post Production** 3 cr.  
Prerequisite: FTCA 6510 or equivalent professional motion picture production experience. Advanced problems in double-system motion picture post-production techniques. Students edit, engineer sound tracks and complete films which were produced in FTCA 6510. Two hours lecture and one hour laboratory each week.
- FTCA 6560 Directing the Documentary Film** 3 cr.  
Prerequisite: Consent of department. Students direct and produce graduate-level documentary film projects. May be repeated once for credit.
- FTCA 6565 Digital Theory Application** 3 cr.  
One-Time Waiver
- FTCA 6580 Film Directing** 3 cr.  
Prerequisite: Consent of department. A study of directing techniques with emphasis on filming the narrative script and on the director's relationship with the actor.
- FTCA 6610 Seminar in Film Arts** 3 cr.  
Study of the meaning and impact of film as an art form. Students will analyze film theory and its application to production. Specific focus will reflect current trends in film. May be repeated once for credit.
- FTCA 6830 Seminar in Stage Movement** 3 cr.  
An examination and practice of various techniques of stage movement for the performer. May include dance, gymnastics, and stage combat. Material varies each semester. May be repeated once for credit.
- FTCA 6900 Graduate Internship** 3 cr.  
This Graduate Internship is offered within the Department's film and theatre programs. Candidates serve in a leadership capacity in production or administrative activity directly related to the Department's MFA production program. The student is expected to devote 12 hours per week in production related responsibilities. The course can be repeated once for credit.
- FTCA 6910 Studio I** 3 cr.  
Prerequisite: consent of department. Independent work in theatrical or media production.
- FTCA 6911 Studio II** 3 cr.  
Prerequisite: consent of department. Independent work in theatrical or media production.
- FTCA 6912 Studio III** 3 cr.  
Prerequisite: consent of department. Independent work in theatrical or media production.
- FTCA 7000 Thesis Research** 1 cr. min./9 cr. max.  
Creative or written project. To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.
- FTCA 7040 Examination or Thesis Only** 0 cr.  
Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

## Geography

- GEOG 1001 World Regional Geography** 3 cr.  
Offered each semester. The nations of Europe (including the Soviet Union) and the Americas; emphasis on the analysis of physical and cultural relationships and interactions between countries in time and space.
- GEOG 1002 World Regional Geography** 3 cr.  
Offered each semester. The nations of Asia and Africa; emphasis on the analysis of physical and cultural relationships and interactions between countries in time and space.
- GEOG 1356 Human Geography** 3 cr.  
Systematic introduction to the spatial organization of generalized human behavior patterns including population demographics, migration, language, religion, political structures, economic systems, settlement patterns, and human landscape features.
- GEOG 1500 Elements of Geography** 3 cr.  
A survey of the basic concepts in physical and cultural geography.
- GEOG 1600 Environmental Geography** 3 cr.  
An analysis of the interactions between humankind and the world's physical environments which have led to present-day environmental stresses. Topics include the utilization of resources, population growth, food supplies, energy, and air and water pollution.
- GEOG 1690 Other People, Other Places** 1 cr.  
An examination of changing landscapes. Topics will vary each semester. Most topics will emphasize man's impact on his environment; other topics will stress the natural environment. Two hours of lecture per week for one-half semester.
- GEOG 2151 Elements of Physical Geography** 3 cr.  
An examination of the fundamentals of the natural landscape and their interactions. Includes weather and climate processes, world climate patterns, soil and vegetation types, and landforming processes.
- GEOG 2158 Conservation** 3 cr.  
An analysis of the basic principles of the conservation of the natural resources of the world. Emphasis will be placed on the United States.
- GEOG 2254 Elements of Economic Geography** 3 cr.  
Examination of factors influencing the location of economic activities with individual treatment of the primary, secondary, and tertiary sectors, and analysis of transportation and regional development problems.

- GEOG 2356 Cultural Geography** 3 cr.  
A consideration of cultural factors which influence the human use of the environment; emphasis on patterns of livelihood, environmental consequences from human decisions, the cultural landscape, the rise of statehood in different places, globalization, and subsistence traditions through time and space.
- GEOG 2401 Geography of Louisiana** 3 cr.  
An examination of the physical and cultural landscapes of Louisiana. Emphasis placed upon the geographical implications of the state's varied cultural heritage. A sampling of topics includes Acadian settlement, rural folk housing, folk occupations, and the evolution of the New Orleans urban landscape.
- GEOG 2402 Geography of the United States and Canada** 3 cr.  
The physical and cultural geography of the United States and Canada. Emphasis on the physical landscape, culture, land use, urbanization, and economic development.
- GEOG 2404 Geography of Latin America** 3 cr.  
The natural environments, cultures, and economic resources of Latin America—from Amazonia to the Andes. Emphasis is placed on the effects of both traditional and modern land use systems on cultural diversity and change and on the internal and external forces that have limited the economic development of Mexico and the nations of Central America, the Caribbean, and South America.
- GEOG 2405 Geography of Costa Rica** 3 cr.  
Study of the physical and human geography of Costa Rica. Taught only in Costa Rica through the UNO Costa Rica program.
- GEOG 2406 Geography of the U.S. South** 3 cr.  
A survey and analysis of the physical and cultural environments of the southern United States. Emphasis on the physical landscape, culture, land use, urbanization, and economic development.
- GEOG 2422 Geography of Western Europe** 3 cr.  
A survey and analysis of the physical, cultural, and economic environments of Europe excluding the states of the former Soviet Union.
- GEOG 2424 Geography of Russia and Neighboring States** 3 cr.  
A survey and analysis of the physical, cultural, and economic environments of Russia and the new countries that emerged from the collapse of the Soviet Union.
- GEOG 2431 Geography of the Middle East** 3 cr.  
A survey and analysis of the physical and cultural environment of the Middle East. Emphasis on physical landscape, land use, and economic and political development.
- GEOG 2441 Geography of Asia** 3 cr.  
A survey and analysis of the physical and cultural environments of Asia. Emphasis on the physical landscape, land use, and economic development.
- GEOG 2451 Geography of Africa** 3 cr.  
A survey and analysis of the physical, cultural, and economic environment of Africa. Emphasis on physical landscape, culture, land use, urbanization, disease, and economic development.
- GEOG 2701 Geographical Literature and Research Aids** 1 cr.  
An examination of the important elements in geographical study and the basic literature and research aids used by geographers.
- GEOG 2801 Quantitative Methods in Geography** 3 cr.  
Prerequisites: MATH 1115 or consent of department. An introduction to quantitative methods and models used in analyzing geographic problems.
- GEOG 2810 Map Reading and Interpretation** 3 cr.  
Basic introduction to the skills and reasoning ability needed to appreciate and use maps as research tools and illustrative devices.
- Emphasis on reading and geographic analysis of U.S. topographic maps. Two hours lecture and two hours laboratory per week.
- GEOG 3390 Special Topics in Cultural Geography** 3 cr.  
Prerequisite: GEOG 2356 or consent of department. The examination of selected regions and social institutions to illustrate the manner in which the geographer achieves an understanding of the man-land relationship. Topics will vary from semester to semester. May be repeated once for credit.
- GEOG 3490 Special Topics in Physical Geography** 3 cr.  
Prerequisite: GEOG 2151 or consent of department. An examination of selected topics in physical geography. Designed to provide an in-depth examination of specific features of the physical landscape and to analyze the manner in which man has altered the natural environment. Topics will vary from semester to semester. May be repeated once for credit.
- GEOG 3595 Academic Year Abroad: Special Topics in Geography** 3 cr.  
This course is only offered through UNO's Academic Year Abroad (AYA) in Innsbruck, Austria and can be repeated once for credit.
- GEOG 3850 Geography Internship** 3 cr.  
Prerequisite: consent of department. Each semester the department makes available internships with the City of New Orleans and other government agencies in the metropolitan area. Internships provide the opportunity to learn about geography from the perspective of the participating agency. This course may be repeated once for credit for a total of six hours.
- GEOG 3895 Senior Honors Thesis** 1 cr. min./6 cr. max.  
Prerequisites: consent of department and the director of the Honors Program. The design and written preparation under faculty supervision of a major geographic research project. May be repeated for up to a total of six credits. Section number will correspond with credit to be carried.
- GEOG 4150/G The Geography of Hazards & Disasters** 3 cr.  
Recommended: Geography 1600. Students are introduced to the geographic study of natural hazards, technological hazards, and disasters. Special emphasis will be given to the spatial patterns and mapping science of both the risk and impact of each type of environmental hazard. Additionally, students will explore the geographic context of creating and managing environmental hazards, contemporary efforts to seek "all-hazards" solutions to the management of environmental hazards and disasters, and the multi-scale (i.e. global, regional, local) challenges presented by environmental hazards.
- GEOG 4158/G Environmental Impact Assessment** 3 cr.  
Prerequisites: GEOG 2151; and BIOS 1073 and 1083, or BIOS 1053 and 1063, or consent of department. Three hours of statistics are recommended. The course addresses the legal framework and provisions of environmental impact statement preparation as prescribed by the National Environmental Policy Act of 1969 and subsequent legislation and guidelines. Methodologies are considered for both analyzing and evaluating human impacts on the natural environment.
- GEOG 4220/G Agricultural Geography** 3 cr.  
Prerequisite: three hours of geography or consent of department. An examination of physical, historical, and cultural factors influencing agricultural production in both industrialized and developing nations with emphasis on case studies representative of diverse agricultural systems. Topics include soil, water, and climatic regulators, small-scale subsistence systems versus mechanized Green-Revolution farming, tropical diets and nutritional diseases, promising new agricultural products and technologies, and home gardening as intensive agriculture.

- GEOG 4310/G Political Geography** 3 cr.  
Examination of the spatial structure of the state spatial interactions among states, geopolitical theories, law of the sea, electoral patterns within the United States, and urban political geography.
- GEOG 4320/G Tropical Lands and Their Utilization** 3 cr.  
The varying utilizations of savanna and rainforest environments by different cultural groups at different times and places; problems of human adaptation to tropical lands; emphasis on South America.
- GEOG 4513/G Meteorology** 3 cr.  
GEOG 2151 is recommended as a prerequisite. An examination and analysis of the elements of weather and the techniques and problems of weather forecasting.
- GEOG 4514/G Climatology** 3 cr.  
GEOG 2151 is recommended as a prerequisite. An analysis of climatic processes and their organization into regional patterns. Also includes inter-relationships among climate, vegetation, soils and landforms, applications of climatic information, and climatic modification and change.
- GEOG 4523/G Hurricane Meteorology** 3 cr.  
Prerequisite: Geography 2151 is recommended. An overview of hurricanes, including their geographic distributions and seasonality, and their mechanisms of formation, steering and intensification. The course will explore hurricane forecasting, and the impacts of storms on landscapes and societies.
- GEOG 4530/G Biogeography** 3 cr.  
A study of the origin distribution adaptation and association of biota (plants and animals) emphasizing geographical relationships. Plant communities are correlated with climate and soil on a worldwide basis. Methods of dispersal and migration are studied along with past geological events that have affected biotic distribution.
- GEOG 4540/G Biogeography of Birds** 3 cr.  
This course will investigate bird distribution patterns and resource use patterns on several spatial scales. Broad geographic patterns will be discussed, including patterns of migration and avian zoogeography. Distributional patterns will be interpreted in terms of the habitat use and behavior of birds at different stages in their annual cycles. Field observations of species nesting around the UNO campus will be incorporated to complement lecture information.
- GEOG 4550/G Geography of Coastal Environments** 3 cr.  
A study of the coastal areas of the world as natural environments, as resources, and as human habitats. Topics covered will include the geomorphology of coasts, coastal oceanography, coastal resources, prehistoric and modern human settlement patterns, the coast as an environmental hazard, and coastal zone management. A substantial amount of time will be devoted to Southern Louisiana.
- GEOG 4600/G History and Practice of Planning** 3 cr.  
(MURP 4600 and GEOG 4600 are cross-listed) This course introduces students to the history and practice of urban planning in the United States from its origins in the colonial era through the evolution of planning thought and programs in the 20th century. It also provides students with an understanding of how planning has evolved through recent history, and is being practiced currently. Emphasis will be placed on the components of comprehensive planning, the implementation of modern city plans, and the discussion of current planning issues.
- GEOG 4610/G Urban Geography** 3 cr.  
Prerequisite: three hours of geography or consent of department. An analysis of the origin and diffusion of cities, their internal arrangement, and external relations and the problems associated with urban living.
- GEOG 4615/G Cultural Ecology** 3 cr.  
Prerequisite: Three hours of geography or consent of department. Examines the interaction between people and their environment with a concentration on nature-society relations in technological, post-industrial societies. Focuses on Southern Louisiana.
- GEOG 4620/G Geography of the Western City** 3 cr.  
Prerequisite: three hours of geography or consent of department. Examination of the spatial patterns of urban evolution in Europe and North America. Emphasis on the form, function, and connectivity of Western cities from classical times to the present.
- GEOG 4630/G Geography of the Third World City** 3 cr.  
Prerequisite: three hours of geography or consent of department. Geographic analysis of urbanism as a way of life and the physical processes of urbanization in the Third World developing countries.
- GEOG 4715 Geography of Sports and Recreation** 3 cr.  
Prerequisite: Three hours of geography or consent of department. Develops a thorough understanding of the geographic dimensions of sports and recreation as elements of culture.
- GEOG 4715/G Geography of Sports and Recreation** 3 cr.  
Prerequisite: Three hours of geography or consent of department. Develops a thorough understanding of the geographic dimensions of sports and recreation as elements of culture.
- GEOG 4805 Fundamentals of Mapping and GIS** 3 cr.  
Prerequisite: GEOG 2801 (or equivalent) or consent of department. Lecture and project-based introduction to the basic concepts and technologies important to mapping, geographic information systems (GIS), and image analysis. Topics include map design fundamentals, thematic mapping, statistical cartography, the relationship of mapping to GIS, essential elements of GIS, data acquisition and analysis, visualization of output, remotely sensed imagery and GIS, GIS functions and associated applications, and spatial decision support systems. This course will meet the needs not only of students who intend to do additional work in geographic techniques, but those who need only a one-semester survey of concepts. Students who have earned credit in GEOG 3805 may not take GEOG 4805 for credit.
- GEOG 4805/G Fundamentals of Mapping and GIS** 3 cr.  
Prerequisite: GEOG 2801 (or equivalent) or consent of department. Lecture and project-based introduction to the basic concepts and technologies important to mapping, geographic information systems (GIS), and image analysis. Topics include map design fundamentals, thematic mapping, statistical cartography, the relationship of mapping to GIS, essential elements of GIS, data acquisition and analysis, visualization of output, remotely sensed imagery and GIS, GIS functions and associated applications, and spatial decision support systems. This course will meet the needs not only of students who intend to do additional work in geographic techniques, but those who need only a one-semester survey of concepts. Students who have earned credit in GEOG 3805 may not take GEOG 4805 for credit.
- GEOG 4810/G Introduction to Remote Sensing** 3 cr.  
Prerequisite: three hours of geography or consent of department. A comprehensive introductory course that deals with fundamental physical principles of the science of remote sensing, the theory and practice of image interpretation, and information extraction techniques for aerial photos and satellite imagery. Includes remote sensing applications pertaining to management of natural resources and contemporary environmental issues. Practical exercises expose students to image processing and interpretation techniques.

- GEOG 4820/G Remote Sensing II: Digital Image Processing and Analysis** 3 cr.  
Prerequisite: GEOG 4810 or consent of department. This course examines the quantitative, computational, and applied aspects of remotely sensed data, with the goal of providing students with an in-depth understanding of image processing analysis, and interpretation techniques. Topics include scientific visualization, geometric, radiometric, and atmospheric correction: image enhancement and manipulation, information extraction, land-use and land-cover change detection, integration of GIS and remote sensing data and spatial modeling. Class applications will address issues related to environmental analysis, land and water resource inventory and use, and urban analysis. Practical exercises expose students to image processing and information extraction techniques.
- GEOG 4822/G Geomorphology** 3 cr.  
(GEOG 4822, GEOG 4822G, and EES 4200 are cross-listed) A study of land forms and the processes that have shaped the natural landscape. A study of the physical geography and geology of the United States through maps and aerial photographs is undertaken in the laboratory. Two hours of lecture and three hours of laboratory.
- GEOG 4830/G GIS Theories and Concepts** 3 cr.  
Prerequisite: GEOG 3805 or 4805 or consent of department. Detailed lecture and lab-based examination of theories and concepts important to geographic information systems (GIS). Topics include GIS as a communication system, data acquisition and management, error management, GIS functions, GIS-based spatial analysis, GIS and regional scale, visualization concepts, the role of GIS in spatial decision support.
- GEOG 4831/G GIS Applications** 3 cr.  
Prerequisite: GEOG 4830 or consent of department. Lecture and lab-based examination of the use of geographic information systems (GIS) in specific problem-solving contexts. Activities include identification of GIS uses in different socioeconomic and physical contexts, analysis of advanced technical issues (e.g., network analysis, location-allocation modeling, facilities management) and investigation of implementation issues.
- GEOG 4832/G Advanced Techniques in GIS** 3 cr.  
Prerequisites: GEOG 4805 and GEOG 4830, or consent of department. This course introduces ArcObjects, the technology framework of ArcGIS, to advanced GIS users. This technology allows users to customize and extend the capabilities of ArcGIS. The class material covers customization of GIS applications and user-interface, program coding of GIS functions and tools, and script writing to automate GIS processes.
- GEOG 4833/G Terrestrial Plant Ecology** 3 cr.  
(BIOS 4833 and GEOG 4833 are cross-listed). Prerequisite: Consent of department. A broad overview of the specialized branches of plant ecology which will examine the essential interactions between plants and their environment. The focus of the course will be threefold: first, theoretical considerations providing students a solid background from which to examine plant environment interactions; second, the dynamic processes that continually shape the structure of plant communities; third, methodologies for sampling and analyzing plant communities. At least two field trips can be anticipated.
- GEOG 4901/G Field Methods in Geography** 4 cr.  
Prerequisites: nine hours of geography including GEOG 2801 or equivalent and consent of department. Techniques of geographic field research. Projects will emphasize methods of gathering and organizing field data and subsequent geographical analysis of collected data. Two hours of lecture and six hours of laboratory.
- GEOG 6001 Problems in Land Use and Environmental Analysis** 1 cr.  
Required of all master of arts in geography students. Examination of procedures and concepts important to the geographical analysis of human and environmental resources focusing on land resources. Topics include spatial analysis of rural and urban land use patterns, environmental consequences of land use decisions, and the role of environmental perception in land use decision-making behavior.
- GEOG 6310 Seminar in Regional Geography** 3 cr.  
Prerequisite: consent of instructor. Advanced analysis of the geography of a specific region. Region emphasized will vary depending on instructor. Course may be repeated once for credit.
- GEOG 6330 Seminar in Cultural Historical Geography** 3 cr.  
Prerequisite: consent of instructor. Intensive study of a topic in cultural and/or historical geography. Topic emphasized will vary depending on instructor. Seminar may be repeated once for credit.
- GEOG 6530 Seminar in Environmental Geography** 3 cr.  
Prerequisite: consent of department. Intensive research into selected topics, including but not limited to environmental processes, human-environment interactions, environmental impact assessment, ecological risk analysis, and public policy making. Focus on the course will vary depending on instructor. Seminar may be repeated once for credit.
- GEOG 6550 Seminar in Physical Geography** 3 cr.  
Prerequisite: consent of instructor. Intensive study of selected problems in soils analysis, climatology, bioclimatology, plant geography, zoogeography, and geographical ecology. Area of study will vary depending on the instructor. Seminar may be repeated once for credit.
- GEOG 6605 Seminar in Land Use Analysis** 3 cr.  
(GEOG 6605 and MURP 6605 are cross-listed) Prerequisite: consent of department. Intensive research into selected rural and/or urban land-use problems in their environmental and historical contexts. Course may be repeated once for credit.
- GEOG 6801 Advanced Quantitative Methods in Geography** 3 cr.  
Prerequisite: GEOG 2801 or consent of department. An advanced course in the analysis of geographic data, focusing on the refinement of research design skills, the use of multivariate statistical techniques, and the application of commonly employed geographic sampling procedures in spatial and environmental analysis.
- GEOG 6820 Seminar in Remote Sensing** 3 cr.  
Prerequisite: GEOG 4820 or consent of department. Intensive research into the theories and techniques of digital image processing at advanced level. Application of satellite remote sensing technology and analysis to real world problems, including image preprocessing, image enhancement, supervised and unsupervised classification, change detection, classification accuracy assessment, and methods of interfacing remote sensing derived information with geographic information systems. Seminar may be repeated once for credit.
- GEOG 6825 Seminar in Geographical Information Science** 3 cr.  
Prerequisite: GEOG 4830 or consent of department. Intensive, literature-based discussion of selected topics from Geographic Information Science. Selected topics may derive from geocomputational developments that extend the traditional GIS paradigm towards dynamic, interactive, and visual approaches, including uncertainty modeling, cellular automata, artificial neural networks and exploratory data analysis. Other topics may include Internet GIS and the societal impact of geographic information technology, including information access and privacy issues. Seminar may be repeated once for credit.

- GEOG 6887 Geographic Thought and Research Methods** 3 cr.  
Required of all Master of Arts in Geography students. Historical evolution of geography as an academic discipline and professional career; geographic subfields and career opportunities; and principles of library research and scholarly writing.
- GEOG 6990 Independent Study** 1 cr. min./4 cr. max.  
Enrollment with consent of department. Independent research in the graduate student's area of specialization under the direction of a designated member of the graduate faculty. May be repeated for a maximum of six units of credit.
- GEOG 7000 Thesis Research** 1 cr. min./9 cr. max.  
To be repeated for credit until thesis is accepted. Section number will correspond to credit to be earned.
- GEOG 7040 Examination of Thesis Only** 0 cr.  
No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation.

## German

- GER 1001 Basic German I** 3 cr.  
Offered each semester. A sequence of courses developing all four language skills: speaking, understanding, writing, and reading. Audio-visual material will be occasionally used.
- GER 1002 Basic German** 3 cr.  
Offered each semester. Continuation of the development of all four language skills: speaking, understanding, writing, and reading. The course includes the presentation and discussion of cultural material such as magazines, films, records, and other audio-visual items.
- GER 2001 Intermediate German I** 3 cr.  
Offered each semester. Continuation of the development of all four language skills: speaking, understanding, writing, and reading. The course includes the presentation and discussion of cultural material such as magazines, films, records, and other audio-visual items.
- GER 2002 Intermediate German II** 3 cr.  
Offered each semester. Readings and exercises in German. Special emphasis on comprehension as well as oral and written expression in the language.
- GER 3002 German Phonetics** 3 cr.  
Analysis of German phonetic principles with extensive practice and corrective drill in the language laboratory and with special reference to the teaching of German pronunciation to English-speaking students.
- GER 3031 German Conversation** 3 cr.  
Prerequisite: GER 2002 or the consent of the department. Conversation, oral, discussions, interpretations, and reports; practicing the spoken languages.
- GER 3041 Advanced German Grammar** 3 cr.  
An intensive course in German grammar designed especially for students who are concentrating in German or preparing to teach the language.
- GER 3042 Advanced German Composition and Syntax** 3 cr.  
Prerequisite: GER 3041. Intensive practice to enable the advanced student to acquire correctness and fluency in both oral and written expression as well as the ability to understand lectures in German.
- GER 3100 Readings in German Culture and Civilization** 3 cr.  
Prerequisite: GER 2002 or consent of department. Readings in German of selected works with discussion in English, analysis and cultural background. Recent cultural developments in the German speaking world will also be covered.
- GER 3101 Survey of German Literature** 3 cr.  
A study of German literature from the nineteenth century to the present.
- GER 3102 The German Novelle** 3 cr.  
Prerequisite: GER 3042. History and theory of this genre with extensive readings illustrative of its stages of development from Goethe to Thomas Mann.
- GER 3106 German Lyric Poetry** 3 cr.  
Prerequisite: GER 3100 or 3101 or consent of department. A study of selected poems with emphasis on representative authors of the different literary periods.
- GER 3145 Lessing and His Age** 3 cr.  
The history of the Enlightenment from Gottsched to Lessing with readings in various works of the Enlightenment; emphasis on Lessing's dramas and theoretical works.
- GER 3150 The Romantic Movement in Germany** 3 cr.  
A study of the Romantic writers in Germany from Novalis to Heine with emphasis on the cultural, philosophical, and political background of the Romantic Movement.
- GER 3155 German Realism** 3 cr.  
Prerequisite: GER 2042. Poetic realism, political literature, Biedermeier, and the dramas of Grabbe, Grillparzer, and Heibel, including a study of the philosophical and historical background of the period.
- GER 3165 20th Century Literature: Impressionism and Subsequent Trends** 0 cr.  
A study of the characteristics of these movements, emphasizing representative writers such as George, Hofmannsthal, Rilke, Schnitzler, Hesse, Mann, Durrenmatt, and others.
- GER 3180 German Literature Since 1945** 3 cr.  
A study of contemporary trends in East and West German literature with extensive readings of representative works.
- GER 3191 Independent Work** 1 cr.  
Prerequisite: consent of department. Readings, conferences, and papers under the direction of a member of the faculty. The course allows the student to correlate and supplement the work covered in the departmental courses. Each course may be repeated, but combined credit may not exceed six semester hours.
- GER 3192 Independent Work** 1 cr.  
Prerequisite: consent of department. Readings, conferences, and papers under the direction of a member of the faculty. The course allows the student to correlate and supplement the work covered in the departmental courses. Each course may be repeated, but combined credit may not exceed six semester hours.
- GER 3193 Independent Work** 1 cr.  
Prerequisite: consent of department. Readings, conferences, and papers under the direction of a member of the faculty. The course allows the student to correlate and supplement the work covered in the departmental courses. Each course may be repeated, but combined credit may not exceed six semester hours.
- GER 3199 Independent Work for Honors Students** 3 cr.  
Preparation of an honors essay under the direction of a member of the German faculty.
- GER 3402 Masterpieces of German Literature in Translation** 3 cr.  
(Open to all students including German and German Education majors for degree credit as an elective.) German works in translation are chosen each time for reading, analysis, and discussion.

## Greek

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- GREK 1011 Introductory Greek Reading I** 3 cr.  
A course for beginners with emphasis on the development of the reading skill. Study of the fundamentals of grammar and readings from Homer.
- GREK 1012 Introductory Greek Reading II** 3 cr.  
A continuation of GREK 1011.
- GREK 2191 Independent Work** 1 cr.  
Prerequisite: consent of department. Readings and conferences under the direction of a member of the faculty. The course allows the student to supplement the work covered in the basic Greek course. Each course may be repeated but combined credit may not exceed six semester hours.
- GREK 2192 Independent Work** 1 cr.  
Prerequisite: consent of department. Readings and conferences under the direction of a member of the faculty. The course allows the student to supplement the work covered in the basic Greek course. Each course may be repeated but combined credit may not exceed six semester hours.
- GREK 2193 Independent Work** 1 cr.  
Prerequisite: consent of department. Readings and conferences under the direction of a member of the faculty. The course allows the student to supplement the work covered in the basic Greek course. Each course may be repeated but combined credit may not exceed six semester hours.

## History

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- HIST 1000 The Last Five Years** 3 cr.  
Offered each semester. This course analyzes the historical processes of continuity and change through lectures, assigned readings, and organized discussions focused on issues and events of the last five years their background and development. Open to freshmen only.
- HIST 1001 World History to 1600** 3 cr.  
Offered each semester. Survey of the societies of Asia, Africa, the Americas, and Europe from the earliest times to the beginning of the modern world.
- HIST 1002 World History since 1600** 3 cr.  
Offered each semester. Survey of the societies of Asia, Africa, Latin America, and Europe in modern times.
- HIST 1010 Introduction to African-American History** 3 cr.  
Offered each semester. An introduction to the origins and patterns of African-American life and culture in the United States. Lectures and discussions.
- HIST 1019 History of Western Civilization Honors** 3 cr.  
Survey of movements and institutions that contributed most to present day civilization. First semester: ancient and medieval periods; second semester: modern period. This is an honors course for qualified students.
- HIST 1029 History of Western Civilization Honors** 3 cr.  
Survey of movements and institutions that contributed most to present day civilization. First semester: ancient and medieval periods; second semester: modern period. This is an honors class for qualified students.
- HIST 2000 Environmental History** 3 cr.  
The rise and decline of states, empires, and civilizations in world history from ancient times to the modern period, seen from an environmental perspective.
- HIST 2050 Historical Catastrophes** 3 cr.  
This course compares the conditions, causes and effects of the Katrina disaster with those of other historical catastrophes in the world in order to highlight some of the broader and longer historical forces which govern such events. It also reflects on discourses of human rights and genocide in the context of catastrophes produced by global modernities.
- HIST 2080 The Impact of Science on Western Society** 3 cr.  
A non-technical survey of the impact of scientific ideas, methods, and discoveries on life and thought in the western world, examined through critical episodes in the history of science from ancient to modern times and their impact on society.
- HIST 2086 The Jews in the Making of Europe** 3 cr.  
Spring semester. A study of the Jews as a minority ethnic group in western civilization, focusing on the contributions of Judaism to the western religious and intellectual tradition, the role of Jews in the growth of Europe's economy, and the development of anti-Semitism and the Jewish response to it.
- HIST 2087 The Jews in the Making of America** 3 cr.  
Fall semester. The Jewish experience in America viewed as an example of cultural conflict and adaptation; the effects of the Jewish struggle to transmit and preserve a cultural heritage and identity under pressures of external hostility and internal conflicts.
- HIST 2201 History of Asian Civilizations** 3 cr.  
A comparative approach to the study of Asia divided into five culture zones (West, South, East, Southeast, and Central) from the dawning of civilization to the sixteenth century C.E.
- HIST 2202 Modern Asian History** 3 cr.  
A comparative approach to the study of Asia divided into five culture zones (West, South, East, Southeast, and Central) from the sixteenth century to the present.
- HIST 2251 The Islamic World** 3 cr.  
A History of the Islamic world, covering Islamic beginnings in the Middle East, the global spread of Muslim communities, and the transformations of contemporary Islamic communities in modern Asia, Africa, and the Middle East. The course's principle focus will be on the relationship among Islamic politics, culture and society.
- HIST 2301 Introduction to Archaeology** 3 cr.  
A survey of the development of archaeological research emphasizing modern principles and current techniques of excavation and dating.
- HIST 2302 The Emergence of Christianity** 3 cr.  
A study of the Jewish and Hellenistic background of Christianity, the life of Jesus, and the development of the Church during the first two centuries A.D.
- HIST 2305 Modern European History, 1789 - Present** 3 cr.  
A survey of modern European history from the French Revolution to the present, with particular emphasis on social, political, and cultural developments.
- HIST 2307 English History to 1688** 3 cr.  
Medieval and early modern England to 1688; medieval society and institutions, constitutional developments, Tudor society and the English Reformation, Stuart kings and revolution.
- HIST 2360 English Constitutional and Legal History** 3 cr.  
Origin and development of English legal institutions; their influence on American legal institutions.
- HIST 2362 Modern Britain** 3 cr.  
Introductory survey of the making of modern Britain since 1688, covering class, gender, race, capitalism and empire.

<b>HIST 2400 Introduction to Latin American History</b>	<b>3 cr.</b>	<b>HIST 3551 African-American History</b>	<b>3 cr.</b>
Survey of the history of Latin America, from first contact between Europeans and indigenous Americans to the present day.		The history of African-Americans from African origins to 1860.	
<b>HIST 2501 American History</b>	<b>3 cr.</b>	<b>HIST 3552 African-American History</b>	<b>3 cr.</b>
Offered each semester. Survey of American history from the earliest times to 1860.		The history of African-Americans since 1860.	
<b>HIST 2502 American History</b>	<b>3 cr.</b>	<b>HIST 3575 United States Presidents and Contemporary History</b>	<b>3 cr.</b>
Offered each semester. Survey of American history from 1860 to the present.		A special view of American history, seen from the perspective of our national leaders. The course will deal with the Presidents since Franklin D. Roosevelt, their earlier careers, their programs, their foreign policies, their wars, their successes, and their failures.	
<b>HIST 2587 Women in American History</b>	<b>3 cr.</b>	<b>HIST 3586 American Social and Cultural History, 1600-1865</b>	<b>3 cr.</b>
An examination of the diverse historical experience of women in America from the colonial period to the present.		A study of art, music, and architecture as well as the clothing, food, houses, work, and amusements of early Americans.	
<b>HIST 2601 History of Louisiana</b>	<b>3 cr.</b>	<b>HIST 3588 Religion in American History</b>	<b>3 cr.</b>
Offered each semester. A survey of the political, economic, social, and cultural development of Louisiana from the founding of the French colony to the present day.		The role of religion in shaping American attitudes and institutions.	
<b>HIST 2602 African Americans in Louisiana</b>	<b>3 cr.</b>	<b>HIST 3595 Academic Year Abroad: Special Topics in History</b>	<b>3 cr.</b>
A study of the role of African Americans in the development of Louisiana with particular emphasis on their contributions to the history of the state, its traditions, and culture.		This course is only offered through UNO's Academic Year Abroad (AYA) in Innsbruck, Austria and can be repeated once for credit.	
<b>HIST 2603 The History of New Orleans</b>	<b>3 cr.</b>	<b>HIST 3992 Special Studies in History</b>	<b>3 cr.</b>
The social, economic, and political growth of New Orleans from colonial times to the present, with particular attention to its ethnic groupings and physical development.		Topic may vary from semester to semester. The course may be repeated once for credit.	
<b>HIST 2701 Africa To 1830</b>	<b>3 cr.</b>	<b>HIST 3995 Independent Study: Readings</b>	<b>1 cr.</b>
Survey of African History from the peopling of the continent to the early nineteenth century. This course will address the formation of African states, trade and technology, culture and political-economy, the impact of Islam and Christianity, and to the Atlantic slave trade.		Prerequisite: consent of department. The courses consist of directed readings designed to meet the needs and interests of the individual student; regular conferences between the student and the instructor are required.	
<b>HIST 2702 Africa 1830-Present</b>	<b>3 cr.</b>	<b>HIST 3996 Independent Study: Readings</b>	<b>1 cr.</b>
Survey of African history from the end of the Atlantic slave trade through the colonial period and the struggle for independence to the nation-states to the present day.		Prerequisite: consent of department. The courses consist of directed readings designed to meet the needs and interests of the individual student; regular conferences between the student and the instructor are required.	
<b>HIST 2991 Special Studies in History</b>	<b>3 cr.</b>	<b>HIST 3999 Senior Honors Thesis</b>	<b>1 cr. min./6 cr. max.</b>
Prerequisite: consent of department. Topic may vary from semester to semester. The course may be repeated once for credit.		Prerequisite: consent of department and the director of the Honors Program. Directed research culminating in a written thesis to meet the requirements for graduation with University Honors and Honors in History. May be repeated for up to a total of six credits. Section number will correspond with credit to be earned.	
<b>HIST 3001 Historical Thought and Writing</b>	<b>3 cr.</b>	<b>HIST 4001/G The City and Civilization</b>	<b>3 cr.</b>
This course is a practicum designed to introduce undergraduate students to the actual process of writing history. Practice in critical analysis, research methodology, documentation, bibliographic forms, and composition, culminating in a major research paper.		Major developments in world urban history from ancient times to the present with emphasis on the European city.	
<b>HIST 3225 The War in Vietnam</b>	<b>3 cr.</b>	<b>HIST 4003/G Modern Military History</b>	<b>3 cr.</b>
A history of the war in Vietnam, 1945-1975, with the emphasis on the American involvement, 1960-1973.		An examination of war and military institutions in western society since the end of the Middle Ages.	
<b>HIST 3315 Contact and Conquest in the Americas</b>	<b>3 cr.</b>	<b>HIST 4005/G History of Social Radicalism</b>	<b>3 cr.</b>
Prerequisite: HIST 2400 or permission of instructor. Survey of the impact of European expansion in the Atlantic world emphasizing contacts among Europeans, Native Americans and Africans and the formation of new societies in the Americas (1492 - 1700).		A study of socialist and communist ideas and political action in the formation of the modern world.	
<b>HIST 3401 Colonial Latin America</b>	<b>3 cr.</b>	<b>HIST 4008/G Public History Methods</b>	<b>3 cr.</b>
History of the peoples and institutions of colonial Latin America. Prerequisite: HIST 2400 or permission of instructor.		An introduction to the research techniques and practices appropriate for public historians. Each semester the course will engage a different theme, such as oral history, new media, or visual history. May be repeated for credit with permission of department.	
<b>HIST 3402 Modern Latin America</b>	<b>3 cr.</b>	<b>HIST 4201/G History of Modern China</b>	<b>3 cr.</b>
Survey of socioeconomic and political development and change and their impact on Latin America's peoples in the nineteenth and twentieth centuries. Prerequisite: HIST 2400 or permission of instructor.		The Empire of the Manchus; China's internal development from 1842 to 1911; political, social, and intellectual movements in the Republican period, 1911-1949; and China under communism.	
		<b>HIST 4213/G History of Japan 1945-Present</b>	<b>3 cr.</b>
		A survey of postwar and contemporary Japan in global contexts from 1945 to the present.	

- HIST 4221/G History of Modern Southeast Asia** 3 cr.  
A history of Southeast Asia since the nineteenth century, with emphasis on Vietnam, Cambodia, Thailand, the Philippines, and Indonesia.
- HIST 4231/G Modern India** 3 cr.  
A survey of modern and contemporary India in global contexts from 1756 to the present
- HIST 4255/G History of Political Islam** 3 cr.  
Examines modern Islamic political cultures in Asia, Africa and the Middle East, by focusing on the causes, development, and context of the modern Islamic revival. Topics to be covered include: Islam and the military dictatorships, Islamic democracy, the Iranian Revolution, the Muslim Brotherhood, women in modern Islam, and Islam and terrorism.
- HIST 4301/G The Ancient Near East** 3 cr.  
A study of the civilizations of Mesopotamia, Egypt, Anatolia, Syria, Palestine, and Persia from earliest times to the Hellenistic period.
- HIST 4302/G Ancient Greece** 3 cr.  
A history of Greek civilization from earliest times to the end of the Hellenistic period.
- HIST 4303/G Roman History** 3 cr.  
A history of Roman civilization from the beginning to the empire of Constantine.
- HIST 4304/G Ancient Israel** 3 cr.  
A study of the history, archaeology, and religious development of ancient Israel from earliest times to the end of the first century B.C.
- HIST 4306/G The Early Middle Ages** 3 cr.  
An examination of changes in European civilization from the disintegration of the Roman hegemony to the eleventh century.
- HIST 4307/G The High Middle Ages** 3 cr.  
An examination of European civilization in the eleventh, twelfth, and thirteenth centuries with emphasis on cultural and institutional developments.
- HIST 4310/G The Renaissance and the Reformation** 3 cr.  
Transition from medieval to modern conditions, emphasizing social, economic, and cultural changes of the fourteenth and fifteenth centuries and the religious upheaval of the sixteenth century.
- HIST 4320/G The Rise of Modern Europe** 3 cr.  
History of Europe in the seventeenth and eighteenth centuries.
- HIST 4330/G French Revolution and Napoleon** 3 cr.
- HIST 4340/G Nineteenth Century Europe** 3 cr.
- HIST 4343/G Revolutionary Europe 1789-1848** 3 cr.  
An analysis of both the French and Industrial Revolutions and their legacies in early nineteenth century Europe. Topics will include the development of new ideologies, the rise of a class society, and the origins and course of the Revolutions of 1820, 1830, and 1848.
- HIST 4344/G Imperial Europe, 1848-1918** 3 cr.  
An analysis of the reordering of Europe following the Revolutions of 1848 and the Crimean War. Topics will include the consolidation of nation-states, the expansion of European overseas empires, the rise of mass politics, and the origins and course of the First World War.
- HIST 4345/G Europe in the Shadow of War, 1918-1945** 3 cr.  
An analysis of Europe during the interwar period and the Second World War. Topics will include the aftermath of the First World War, the rise of totalitarian regimes, and the origins and course of the Second World War.
- HIST 4346/G Postwar Europe, 1945-Present** 3 cr.  
An analysis of Europe during the postwar era. Topics will include the aftermath of the Second World War, the rise of Cold War antagonisms, postwar prosperity, European integration, and the eventual collapse of the Soviet Bloc.
- HIST 4361/G Tudor England** 3 cr.  
England from the Wars of the Roses to the death of Elizabeth, 1471-1603. Moves from Richard III's death on Bosworth field to Henry VIII and Anne Boleyn, Edward VI, "Bloody" Mary, and the Age of Elizabeth, with special emphasis on the Shakespearean Renaissance, the rise of Parliament, and the naval exploits of the English "Sea Dogs."
- HIST 4362/G Stuart England** 3 cr.  
The political, economic, and cultural history of England in the seventeenth century, 1603-1714.
- HIST 4364/G Modern Ireland: History and Culture** 3 cr.  
A survey of modern and contemporary Ireland from the 1798 rebellion to the present, with an emphasis on late modern Irish history and culture in transnational contexts.
- HIST 4365/G The Age of Churchill** 3 cr.  
Political, social, and economic developments in England and the British Empire during recent times; emergence of the modern social state.
- HIST 4366/G The British Empire** 3 cr.  
General survey of the British Empire and development of the British Commonwealth of Nations.
- HIST 4367/G The Age of Louis XIV** 3 cr.  
France in the seventeenth century. The course will focus on the formation of the modern state with a political-military bureaucracy that was imitated, like Versailles, on a lesser scale in other countries; the development of the French colonial empire, including Louisiana; and the dominant cultural, intellectual, scientific, and religious trends along with their impact elsewhere in Europe. Several slide lectures will illustrate the art and architecture of the period.
- HIST 4368/G Modern France** 3 cr.  
Major political, social, and economic forces that molded the French nation after 1815.
- HIST 4369/G Modern Spain** 3 cr.  
An examination of the formation of modern Spain, emphasizing the transition from the pluralistic society of the middle ages to the orthodoxy of Ferdinand and Isabella and the imperialism of the sixteenth century, and tracing the development of social, economic, and political structures to the present day.
- HIST 4371/G Modern Germany, 1789-Present** 3 cr.  
An analysis of German history from the French Revolution to the present. Topics will include the formation of a German nation-state, the rise of radical nationalism, the Second World War and the Holocaust, and postwar Germany's economic and political development.
- HIST 4373/G History of the Hapsburg Empire** 3 cr.  
A study of the Hapsburg Empire from its emergence as a major power in the eighteenth century to the disintegration of Austria-Hungary in 1918.
- HIST 4375/G Tsarist Russia** 3 cr.  
Russian institutions and life under the Romanovs.
- HIST 4376/G Modern and Contemporary Russia** 3 cr.  
Focus on late Imperial and Soviet periods.

- HIST 4380/G Europe's Quest for Power and Peace** 3 cr.  
A study of the major developments in European international relations with emphasis on diplomacy as an instrument of national policy. The first semester examines developments from the Congress of Vienna to the origins of the First World War; the second covers from the Versailles peace settlement through Second World War and the Cold War to the present. Either semester may be taken independently.
- HIST 4381/G Europe's Quest for Power and Peace** 3 cr.  
A study of the major developments in European international relations with emphasis on diplomacy as an instrument of national policy. The first semester examines developments from the Congress of Vienna to the origins of the First World War; the second covers from the Versailles peace settlement through Second World War and the Cold War to the present. Either semester may be taken independently.
- HIST 4382/G The European Intellectual Tradition** 3 cr.  
This course is not a history of formal thought, but relates central ideas to political, economic, social, artistic, and scientific movements. The first semester concentrates on the earlier periods and the second semester on modern Europe. Either semester may be taken independently.
- HIST 4383/G The European Intellectual Tradition** 3 cr.  
This course is not a history of formal thought, but relates central ideas to political, economic, social, artistic, and scientific movements. The first semester concentrates on the earlier periods and the second semester on modern Europe. Either semester may be taken independently.
- HIST 4401/G Latin American Cities** 3 cr.  
The course examines the formation and function of cities in Latin America beginning with Iberian and pre-Colombian antecedents and tracing urban development in Spanish and Portuguese America to the present day.
- HIST 4403/G History of Mexico** 3 cr.  
Political, economic, and social developments from the colonial period to the present.
- HIST 4406/G Caribbean Civilization** 3 cr.  
Survey of the West Indies, Central America, Colombia, and Venezuela from colonial to modern times.
- HIST 4501/G The Colonial Period in American History** 3 cr.  
An examination of the establishment and development of the English colonies in North America.
- HIST 4502/G The Revolutionary Period in American History** 3 cr.  
An analysis of the causes, progress, and consequences of the revolution in the British colonies of North America.
- HIST 4503/G The New Nation 1789-1815** 3 cr.  
Development of American political, social, and cultural institutions during the formative years of the new Republic.
- HIST 4504/G The Jackson Era 1815-1845** 3 cr.  
Examination of the nature of Jacksonian Democracy and its treatment in American historiography.
- HIST 4505/G The Disruption of the Union 1845-1861** 3 cr.  
A study of the divisive political, social, and economic forces which intensified in the 1840s and culminated in the Civil War.
- HIST 4506/G Civil War and Reconstruction** 3 cr.  
A study of the wartime problems of the Union and Confederacy, the consequences of the war, and the efforts to create a new Union.
- HIST 4508/G America in Transition 1877-1900** 3 cr.  
An intensive study of the rise of the United States as an industrial and world power with particular stress on the changing patterns within American society.
- HIST 4510/G Recent American History** 3 cr.  
Historical evolution of the United States in recent times.
- HIST 4511/G Recent American History** 3 cr.  
Historical evolution of the United States in recent times.
- HIST 4521/G The New South** 3 cr.  
Political, social, and economic changes in the South since 1880.
- HIST 4543/G United States Urban History** 3 cr.  
Urban development in the United States from the colonial town to the twentieth century megalopolis.
- HIST 4544/G Religion in American History** 3 cr.  
The role of religion in American life from early colonial times to the Civil War.
- HIST 4545/G Religion in Modern American History** 3 cr.  
The role of religion in American life from the Civil War to the present.
- HIST 4547/G Women in the Modern American City** 3 cr.  
The roles of women in urban American culture since World War II with emphasis on issues of gender, ethnicity, and class.
- HIST 4551/G African-American Slavery** 3 cr.  
A study of the origins and the political, economic, and social structure of slavery in the European colonial empires of the western hemisphere with special emphasis on the British Empire and the United States.
- HIST 4552/G Black Movements and Messiahs** 3 cr.  
A study of the organizations, leadership, and programs of late nineteenth and twentieth century movements that have sought escape from personal and institutional racism in the United States.
- HIST 4555/G The Civil Rights Era** 3 cr.  
An examination of race relations in the United States from the New Deal of the 1930s to the 1980s.
- HIST 4561/G U.S. Constitutional Development to 1865** 3 cr.  
The historical development of the U.S. Constitution from its British origins to the end of the American Civil War.
- HIST 4562/G U.S. Constitutional History Since 1865** 3 cr.  
The role of the constitution in the transformation of the federal union into the indivisible nation.
- HIST 4565/G U.S. Military History, 1607-2001** 3 cr.  
Introduction to American military history from the colonial period to the end of the Cold War. The course emphasizes the conduct of major wars, defense policy, the development of the U.S. armed forces, civil-military relations, and technological innovation.
- HIST 4570/G World War II-An International History** 3 cr.  
A look at World War II from a global perspective: the intricate international diplomacy and strategic planning of the principal combatants; the war's major military campaigns and battles, its impact on the involved societies and economies, its brutal effect on victims, its difficult choices of appeasement/collaboration or resistance, as well as the postwar "mastering" of the war's harsh memories.
- HIST 4575/G The Cold War Era** 3 cr.  
An examination of the role the United States in the international arena and the nuclear arms race during the Cold War (1945-1989) and its repercussions on domestic politics.

- HIST 4580/G Diplomatic History of the United States** 3 cr.  
Historical evolution of American foreign policies since 1776.
- HIST 4581/G Diplomatic History of the United States** 3 cr.  
Historical evolution of American foreign policies since 1776.
- HIST 4582/G Sources of American Thought** 3 cr.  
Ideas and beliefs which have shaped American life, traced from early colonial times to 1865. Special attention to Puritan attitudes, the Enlightenment, southern particularism, Romantic currents, and perceptions of nature and technology.
- HIST 4583/G Modern American Thought** 3 cr.  
Ideas and beliefs which have shaped American life since the Civil War. Special attention to the impact of Darwinian evolution, idealism, and pragmatism, modernist and anti-modernist attitudes, the South, and radical and conservative critiques of American society.
- HIST 4587/G American Social and Cultural History 1865 to the Present** 3 cr.  
A study of the historical development of American Cultural and Social Movements, with an emphasis upon literature, art, architecture, and popular culture.
- HIST 4603/G Research in New Orleans History** 3 cr.  
(HIST 4603 and URBN 4603 are cross-listed) Prerequisite: HIST 2603 or HIST 4543 or consent of instructor. A detailed survey of qualitative research techniques, their application to local and urban history, and the preparation of a written project based on primary research in New Orleans history.
- HIST 4926/G New Orleans Ethnic Studies for Teachers** 3 cr.  
An analysis of the different peoples who came to New Orleans and their cultural contributions to the unique features of the city. Conceptual structure, techniques, and basic bibliography for teaching the subject in local secondary schools. Not normally recommended for history majors.
- HIST 4943/G World History for Teachers** 3 cr.  
This course is primarily intended for teachers. New interpretations in world history, organizational and conceptual structures, classroom techniques, materials, and basic bibliography for teaching world history at the secondary level.
- HIST 4945/G New Interpretations of American History for Teachers** 3 cr.  
A course designed primarily for secondary school social science teachers on recent interpretations of U.S. history. Appropriate teaching techniques and basic bibliography.
- HIST 4991/G Special Studies in History** 3 cr.  
Prerequisite: consent of department. Topic may vary from semester to semester. The course may be repeated once for credit.
- HIST 6001 Historical Research and Writing** 3 cr.  
Introduction to research methods, historical genres, proper usage and approaches to historical writing.
- HIST 6008 Introduction to Public History** 3 cr.  
Theoretical debates and practical considerations involved in presenting historical scholarship to the public through museums, documentary films, online exhibits and other venues.
- HIST 6301 Proseminar in European History** 3 cr.  
Intensive reading on a particular problem area, or period of European history. Discussions, conferences, short reports, or short papers. Each course may be taken more than once for credit.
- HIST 6302 Seminar in European History** 3 cr.  
Intensive research on a particular problem culminating in presentation of a paper. Course may be taken more than once for credit.
- HIST 6501 Proseminar in American History** 3 cr.  
Intensive reading on a particular problem, area, or period of American history. Discussions, conferences, short reports, or short papers. May be taken more than once for credit.
- HIST 6502 Seminar in American History** 3 cr.  
Intensive research on a particular problem culminating in presentation of a paper. May be taken more than once for credit.
- HIST 6601 Proseminar in Special Topics** 3 cr.  
Intensive reading on a particular problem, area, or period of history, including topics that are comparative in nature, focusing principally on areas of the world outside of the United States. Discussions, conferences, short reports, or essays. May be taken more than once for credit.
- HIST 6602 Seminar in Special Topics** 3 cr.  
Intensive research on a particular problem, area, or period of history, including topics that are comparative in nature, focusing principally on areas of the world outside the United States, culminating in presentation of a paper. May be taken more than once for credit.
- HIST 6803 Proseminar in Urban History: Social and Cultural Change** 3 cr.  
DURB 6803, DURB 6805, and HIST 6803 are cross-listed) Prerequisite: DURB/URBN 6850 or HIST 4543 or consent of instructor. Intensive reading in urban, social, and cultural change. Focus will be on American, European, and/or Third World urban development, from the founding of initial settlements to the present day. Discussions, conferences, short reports, and essays will be required. May be taken more than once for credit.
- HIST 6804 Seminar In Urban History** 3 cr.  
Intensive research on a particular problem culminating in the presentation of a paper. May be taken more than once for credit.
- HIST 6992 Public History Internship** 3 cr.  
Prerequisite: consent of department. Work with local museums, archives, libraries, and other appropriate agencies. With department consent, this course may be repeated once for credit.
- HIST 6995 Independent Study** 3 cr.  
Prerequisite: consent of individual faculty member and approval by graduate coordinator. A plan for directed readings or research will be developed by the student and the individual faculty member. Open to degree students only. May be repeated once for credit.
- HIST 7000 Thesis Research** 1 cr. min./9 cr. max.  
To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.
- HIST 7040 Examination Or Thesis Only** 0 cr.  
Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

## **Hotel, Restaurant and Tourism Administration**

- HRT 2000 Introduction to Hotel, Restaurant and Tourism Administration** 3 cr.  
A comprehensive survey of the lodging, food service, and travel industries emphasizing their historical development and current trends by examining the social, economic, technological, and geographic factors contributing to their evolution. Basic operating principles and industry concepts and terms are stressed. Guest lecturers are featured, affording students the opportunity to discuss hospitality careers with local industry executives and leaders.

- HRT 2020 Hotel Operations** 3 cr.  
Study of the operating departments and functions of contemporary hotels. Topics will include analysis of commercial, transient, resort, and convention properties. The course will examine the management processes and problems in operating hotels.
- HRT 2030 Principles of Food Production** 3 cr.  
A study of foodservice organizations utilizing the foodservice systems model as the framework for students to build a sound understanding of how managers can efficiently and effectively transform human, material, facility and operational resources to create meals, customer satisfaction, employee satisfaction, and financial accountability. The course will include demonstrations of the thirteen core cooking methods and a lab fee is required. Open only to Hotel, Restaurant and Tourism Administration majors.
- HRT 2050 Principles of Travel and Tourism** 3 cr.  
An introduction to the principles of domestic and international tourism analyzing its history, organization and transportation modes; the motivation of travel and travel choice; tourism supply, demand, economic, and destination development; tourism marketing and research; and the future of tourism in international social and economic development.
- HRT 2070 Introduction to the Conventions, Events and Meetings Industry** 3 cr.  
The course serves as an introduction to the segment of the hospitality industry dealing with meetings, conventions, events, and incentive travel. The course provides a survey of the industry players; national associations; career opportunities; the wants and needs of the attendee as well as sponsors and organizers.
- HRT 3002 Hotel, Restaurant and Tourism Work Experience** 1 cr.  
The work experience will normally be completed during the progress through the HRT program. Students are advised that most benefit will be gained by completing this requirement in a number of positions that provide insight into a range of hospitality and tourism career tracks. The course consists of 600 hours of work experience that must be documented and approved on a pass/fail basis by the faculty advisor. Formal enrollment should take place when the 600 hours requirement is completed.
- HRT 3011 Tourism and Hospitality Marketing** 3 cr.  
Prerequisite: MKT 3501. A survey of modern marketing theory and techniques as applied in the tourism and hospitality industry. Emphasis will be placed on services marketing, and topics include an analysis of hospitality customer needs, marketing planning, segmentation, positioning, and promotion.
- HRT 3016 Legal Environment in the Hospitality Industry** 3 cr.  
Nature and function of law and legal institutions in society; with emphasis on those areas of law most relevant to hospitality operations. Topics include attributes of hotels, licensing, regulation, hotel-guest and restaurant-patron relationship, obligations of hotels, guest property, rights of hotels and restaurants, sale of alcoholic beverages, and travel industry law.
- HRT 3017 Service Organization Management in Hospitality** 3 cr.  
Principles and practices of service management as applied to the hospitality firm. Emphasis will be upon the human resource component of the organization as well as the practical application of theoretical concepts.
- HRT 3140 Cost Control of Hospitality Operations** 3 cr.  
Prerequisite: ACCT 2130. Study of factors important in the control of expenses in food service and lodging operations. Topics will include: purchasing, receiving, storage, issuing, budgeting, menu pricing, labor cost control, and the use of source documents and forms.
- HRT 3141 Management of Beverage Service** 3 cr.  
An advanced, comprehensive examination of beverage operations in the hospitality industry. Topics will include: purchasing, storing, issuing and serving alcoholic beverages; survey and study of wines, spirits, and beers; and a study of laws and social considerations pertaining to the serving of alcoholic beverages. Restricted to Hotel, Restaurant, and Tourism Administration majors.
- HRT 3145 Layout, Design and Maintenance of Hospitality Facilities** 3 cr.  
Prerequisite: HRT 2030. A study of facilities design and layout for effective delivery of hospitality services. Topics include equipment selection, space allocation, maintenance of the physical plant in hospitality facilities, principles of utilities management, ventilation, sanitation, acoustics, furniture and fixture selection, and maintenance.
- HRT 3150 Tourism Planning and Operations** 3 cr.  
Prerequisite: HRT 2050. This course examines the tourism planning approach, considering political, physical, social, and economic elements as interrelated and interdependent components. The development process of various tourism products at the national, regional, and community levels will be examined including the functions of tour operators, wholesale and retail travel agencies.
- HRT 3240 Club Management and Operations** 3 cr.  
An analysis of the operation and management of private and public clubs (golf, tennis, military, country clubs, professional, and business clubs).
- HRT 3290 Hospitality Internship** 3 cr.  
Under the supervision of an HRT faculty member, the student will intern at the site of a participating organization for a specific research project or set of activities. Readings and other research activities may be assigned. Students desiring to take this course should apply a semester in advance for School approval. Only open to Hotel, Restaurant, and Tourism Administration majors. A minimum of eight hours per week at the site of a participating organization will be required.
- HRT 3295 Independent Study in Hotel, Restaurant and Tourism Administration** 1 cr. min./3 cr. max.  
Offered each semester. Prerequisite: Approval of the directed individual study by the director of HRT and the supervising professor is required prior to registration. The student should refer to the College of Business Administration Policy on Undergraduate Directed Individual Study available in the School of Hotel, Restaurant, and Tourism Administration. Arranged individually in order to provide latitude for specialized study and research under the direction of a faculty member. Progress reports, readings, conferences, and a research paper are required. May be repeated for up to six hours credit.
- HRT 4000 Policy Issues in Tourism and Hospitality** 3 cr.  
Prerequisites: FIN 3300, HRT 2000, 3011, 3017, and 3140 and senior standing or consent of the School. A case-oriented course in strategic planning and management in the hospitality industry. Students will analyze tourism and hospitality industry cases to develop their skills in formulating and implementing business strategies. Not available for graduate credit.
- HRT 4110 Tourism and Hospitality Research** 3 cr.  
Prerequisites: HRT 2050, 3011, MATH 2314 or the consent of the department. An advanced course in tourism research techniques for the tourism and the hospitality industry. Students will formulate and execute a research study including research design, data collection, computerized data analysis and interpretation of results. Not available for graduate credit.

- HRT 4120 Advanced Lodging Operations Management** 3 cr.  
Prerequisites: HRT 2020 and 3017 and senior standing or consent of the School. An in-depth study of management practices employed in the operation of hotels, motels, resorts, cruise ships, and other institutional lodging facilities. This course will focus on the organizational structure and management concepts that are applied to lodging operations.
- HRT 4150/G Meeting, Event, and Convention Planning** 3 cr.  
Prerequisite: HRT 2070 or consent of department. This is an advanced course designed as the second course in the HRT Concentration in the Meetings, Events, Exhibitions, and Convention industry. This course teaches how to plan, organize, staff and evaluate any meeting or event. The importance of this course is further justified given the increasingly important role meetings, events, exhibitions, and conventions play in both the local and national economies. Learning will take place through a combination of lectures, readings, guest speakers, and a term project.
- HRT 4155/G The Management and Planning of Conventions, Events and Meetings** 3 cr.  
Prerequisites: HRT 2070 and 3011 or consent of department. An advanced study of the management of in-bound tourism operations, conventions, expositions, meetings, and the facilities employed to provide these services. Topics will include meeting planning, convention services, convention center, and arena management.
- HRT 4160/G Theories of Casino Gaming** 3 cr.  
Prerequisite: MATH 2314. A study of theories pertinent to casino games including but not limited to craps, money wheel, slot machines, keno, blackjack, roulette, baccarat, and poker. Not available for graduate credit.
- HRT 4165/G Management of Casino Gaming Enterprises** 3 cr.  
A study of the organization, management, staffing, audit, regulation, internal control, and reporting requirements of gaming operations.
- HRT 4230 Advanced Food Service Management** 3 cr.  
Prerequisites: HRT 2030, 3140, 3145 and senior standing or the consent of the School. Planning and managing the commercial food-service operation including independent restaurants, banquets and catering, cafeterias, institutional foodservice, and quick service restaurants. Topics will include forecasting and budgeting, menu development, staffing, establishing operational control, and management decision making.
- HRT 4250/G International Tourism** 3 cr.  
Prerequisites: HRT 2050, 3011, and senior standing or consent of department. A comprehensive examination of the complex world of international tourism as a modern mass cultural activity. The course will emphasize world geography and traveler flows, political environments and security relationships, government planning and destination development, economic development strategies and international competition, and the role of international agencies and organizations in world tourism.
- HRT 4290/G Special Topics in Hotel, Restaurant and Tourism Administration** 3 cr.  
Prerequisite: consent of the school. An advanced study of contemporary issues in Hotel, Restaurant, and Tourism. May be repeated for credit when topics vary.
- HRT 4299 Senior Honors Thesis** 3 cr.  
Prerequisite: consent of school and the director of the Honors Program. Only students maintaining an overall 3.0 grade-point average and a 3.5 grade-point average in Hotel, Restaurant, and Tourism Administration may apply. Senior honors thesis research in Hotel, Restaurant, and Tourism Administration under the direction of a faculty member. Students may earn up to a total of six credits. Oral defense of thesis is required. Not available for graduate credit.
- HRT 6001 Survey of the Hospitality & Tourism Industry** 3 cr.  
This course examines the areas of critical importance in the hotel, restaurant, and tourism industries. Students will be presented with a global knowledge of the industry, individual organizations, and current management trends and issues through the use of case studies. The management of hospitality organizations will be discussed in the context of various management related problems.
- HRT 6102 Technology for Tourism & Hospitality Management** 3 cr.  
This course is designed to investigate and present topics, trends, and issues of using technology in the hospitality and tourism industry. The course will focus on technology to manage information and examine the Internet as a management and marketing tool. This is a particularly dynamic area, crucial for the future success of managers, and it will feature presentations and interactions with industry professionals.
- HRT 6200 Hospitality and Tourism Operations Analysis** 3 cr.  
Prerequisite: HRT 6001 or consent of school. Qualitative and quantitative analysis of management/operational problems specific to the hospitality and tourism industry will be used to synthesize knowledge with the more advanced and unique aspects of hospitality/tourism operations. Management theories, marketing principles, financial concepts, and advanced analytical techniques are applied to the hospitality and tourism industry. Readings and case analysis are used to illuminate the diverse segments of the industry.
- HRT 6202 Hospitality and Tourism Research Methods** 3 cr.  
This course is designed to introduce students to the research function using both descriptive and inferential statistics. This course will aid students in understanding the role of information in decision-making and in learning the techniques involved in acquiring information. Students will learn the research process and be able to evaluate the appropriateness of research methodology.
- HRT 6203 Marketing Applications for Hospitality & Tourism Industry** 3 cr.  
This course is designed to apply the fundamentals of marketing to the hospitality and tourism industry. It involves understanding that the world around us alters the decisions we make about our product/service, price, distribution, and communications. Emphasis will be on strategic marketing and the development of marketing plans.
- HRT 6204 Hospitality & Tourism Internship** 3 cr.  
This supervised internship allows students to learn by working with the sponsoring hospitality or tourism organization to critically examine a major aspect of their operations. Objectives are set and evaluation is accomplished jointly by the program coordinator, the student, and the on-site supervisor. A research report on the internship is required.
- HRT 6205 Change Management for Hospitality & Tourism** 3 cr.  
This course examines the critical area of change management in a service quality environment. It discusses the components of leadership, change management, and human resource management that have increasingly become recognized as the main drivers of success for all hospitality and tourism organizations. The course sets these components within the quality improvement framework. It further examines the development of the quality movement and the issues of measuring quality within the hospitality and tourism context.

## HRT 6207 Work Experience in the Hospitality and

**Tourism Industry** 0 cr.  
The work experience is only available to students enrolled in the Master of Science in HTM as a required course and to the College of Business Administration MBA students with an HRT option. The course consists of 400 hours of work experience, approved in advance by the graduate coordinator of the Master of Science program in HRT. Formal enrollment must take place no later than the second semester of enrollment in the graduate program.

**HRT 6250 Tourism Destination Development** 3 cr.  
Prerequisite: HRT 6001 or consent of school. Planning, development, and marketing of tourism at the destination level, from small communities to cities, regions, or countries. Approaches and guidelines for the integrated and sustainable development of tourism that is coherent with community needs, and for the marketing of tourism destination. The social, environmental, and economic costs and benefits of tourism with their implications for planning and management. This course will require an active participation of the students through the presentation of cases, and the elaboration of tourism development and marketing plans.

**HRT 6300 Hospitality & Tourism Finance & Revenue Management** 3 cr.  
This course examines the critical areas of financial management and revenue maximization as applied to the hospitality and tourism industry. Course topics include interpretation and analysis of financial statements, forecasting, budget preparation and analysis, and applications of Cost-Volume-Profit and Yield Management models. Emphasis will be placed upon the integration of financial management with revenue maximization.

**HRT 6301 Hospitality & Tourism Industry Strategic Management** 3 cr.  
Concepts and formulation of business strategy are analyzed and determined in the framework of the total business environment. Roles and actions of top management and supervisory personnel in developing and implementing policy and strategy are examined in the highly competitive settings of the hospitality and tourism industry. Case studies are utilized to solve problems in the classroom. This course should be taken in the final semester of study and it will draw extensively upon the knowledge and skills acquired throughout the program. Open to M.S. in Hospitality and Tourism Management students only.

**HRT 6491 Independent Study In Hospitality & Tourism** 3 cr.  
Prerequisite: consent of department. Readings, weekly or biweekly reports, conferences, and a research paper under the direction of a graduate faculty member is required.

**HRT 6495 Special Topics in Hospitality & Tourism** 3 cr.  
An intensive study of selected special topics in hospitality and tourism management. Topics will vary based on contemporary needs as dictated by the discipline as well as the interests of the students and the instructor.

**HRT 7000 Thesis Research** 3 cr. min./6 cr. max.  
Offered each semester. Prerequisite: HRT 6202 and permission of the department. To be repeated for credit until thesis is accepted.

**HRT 7040 Examination or Thesis Only No Credit** 0 cr.  
Open to students in a thesis program who have only (other than application for degree) on the final typing and acceptance by the Graduate School of their thesis or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

## Humanities

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**HUMS 1090 Classical Mythology as Expressed in Western Art** 3 cr.  
Focuses on how Greek and Roman myths inspired artists from Archaic to Modern times. It will provide an introduction to the stories and substance of the major classical myths using various works of art to illustrate the myths.

**HUMS 2090 Special Topics in the Humanities** 3 cr.  
An examination of selected topics in the Humanities drawn from contemporary issues in fields including but not limited to the arts, culture, economics, and politics as they relate to the human condition. Lectures and/or discussions featuring local experts in the area of study. May be repeated for credit (total of 6 credit hours)

**HUMS 4090/G Special Topics In Humanities** 3 cr.  
An interdisciplinary course in the humanities. Topics will vary. May be repeated once for credit.

## Interdisciplinary Studies

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**IDS 1001 Introductory Seminar** 1 cr.  
The IDS Introductory Seminar will be required of all IDS students within their first two semesters of enrollment. In this course students will engage in an interactive learning experience exploring the principles of integrative learning in the Interdisciplinary Studies degree program. This course will be taught utilizing distance learning. This course is graded Pass/Fail.

**IDS 3091 Capstone Course** 1 cr.  
Prerequisite: Consent of department only. Independent study course for Interdisciplinary Studies majors only. Readings, advising, reflection paper and oral presentation. In this course IDS majors will build their knowledge of interdisciplinary relationships between distinct academic disciplines in order to write their final reflection paper and to present an oral report on their integrative learning experience. This course is graded Pass/Fail.

## International Studies

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**IS 4998 Internship in International Studies** 3 cr. min./6 cr. max.  
Prerequisites: consent of the director of International Studies. The internship requirement for the IS degree includes at least 3 but no more than 6 hours of credit. A 3-hour credit involves 120 hours of work during the semester or summer term. The internship may be either student-initiated or faculty/administrator-initiated. Internships are available in local consular offices, corporations, and non-governmental and governmental agencies, or can be arranged through our international exchange partners abroad.

## Italian

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Placement of students with high school preparation in Italian: students with sufficient preparation in Italian may enter the second, third, or fourth semester course in that language, thus completing the foreign language requirement in fewer semesters. Students interested in taking placement tests should contact the Foreign Language departments. Language courses in the 1001, 1002, 2001, 2002 sequence must be taken in that order.

**ITAL 1001 Basic Italian I** 3 cr.  
The first in a sequence of courses developing all four language skills; speaking, understanding, writing, and reading. No previous knowledge of the language required.

**ITAL 1002 Basic Italian II** 3 cr.  
Prerequisite: ITAL 1001 or consent of department. A continuation of the development of the four language skills.

- ITAL 2001 Intermediate Italian I** 3 cr.  
Prerequisite: ITAL 1002 or consent of department. A continuation of the development of the four language skills with emphasis on reading and understanding.
- ITAL 2002 Intermediate Italian II** 3 cr.  
Prerequisite: ITAL 2001 or consent of department. A continuation of the development of the four language skills with special emphasis on oral expression in the language.
- ITAL 3031 Italian Conversation** 3 cr.  
Prerequisite: ITAL 2002 or consent of instructor. Conversation, oral discussions, interpretations, and reports; practicing the spoken language.
- ITAL 3100 Survey of Italian Literature** 3 cr.  
Prerequisite: ITAL 2002 or 3031 or consent of department. A study of the main authors and literary movements of Italian literature from its origins to the present. Designed to introduce students to the reading and analysis of important works in the original language. Lectures and discussions will be in English.
- ITAL 3191 Independent Work** 1 cr.  
Prerequisite: consent of department. Readings and conferences under the direction of a member of the faculty. The course introduces the student to major authors and movements of Italian literature. Each course may be repeated, but combined credit may not exceed six semester hours.
- ITAL 3192 Independent Work** 1 cr.  
Prerequisite: consent of department. Readings and conferences under the direction of a member of the faculty. The course introduces the student to major authors and movements of Italian literature. Each course may be repeated, but combined credit may not exceed six semester hours.
- ITAL 3193 Independent Work** 1 cr.  
Prerequisite: consent of department. Readings and conferences under the direction of a member of the faculty. The course introduces the student to major authors and movements of Italian literature. Each course may be repeated, but combined credit may not exceed six semester hours.
- ITAL 3402 Masterpieces of Italian Literature in Translation** 3 cr.  
Different Italian works in translation are chosen each time for reading, analysis, and discussion.

## Japanese

- JAPN 1001 Basic Japanese** 3 cr.  
A sequence of courses for beginners that aims at the acquisition of the four basic language skills: speaking, understanding, reading, and writing. The mastery of basic language structures will be achieved through aural-oral exercises and practice. The Japanese writing system will be introduced from the beginning (all Katakana and Hiragana). Kanji (Chinese characters) will be gradually introduced later in the first course.
- JAPN 1002 Basic Japanese** 3 cr.  
A continuation of JAPN 1001.
- JAPN 2001 Intermediate Japanese** 3 cr.  
Continuation of the development of all four language skills: speaking, understanding, reading, and writing. The course includes the study of approximately 100 Japanese characters, and the presentation and discussion of Japanese culture.
- JAPN 2002 Intermediate Japanese** 3 cr.  
Continuation of the development of all language skills: speaking, understanding, reading, and writing. The course includes the study of additional Japanese characters and the presentation and discussion of aspects of Japanese culture.
- JAPN 3031 Japanese Conversation** 3 cr.  
Prerequisite: JAPN 2002 or consent of department. Conversation, oral discussions, interpretations, and reports; practicing the spoken language.
- JAPN 3191 Independent Work** 1 cr.  
Prerequisite: JAPN 2002 and consent of department. Readings, conferences, and papers under the direction of a member of the faculty. The course allows the student to correlate and supplement the work covered in the regularly offered departmental courses. The sequence of 3191, 3192, and 3193 may be repeated, but combined credit may not exceed six semester hours.
- JAPN 3192 Independent Work** 1 cr.  
Prerequisite: JAPN 2002 and consent of department. Readings, conferences, and papers under the direction of a member of the faculty. The course allows the student to correlate and supplement the work covered in the regularly offered departmental courses. The sequence of 3191, 3192, and 3193 may be repeated, but combined credit may not exceed six semester hours.
- JAPN 3193 Independent Work** 1 cr.  
Prerequisite: JAPN 2002 and consent of department. Readings, conferences, and papers under the direction of a member of the faculty. The course allows the student to correlate and supplement the work covered in the regularly offered departmental courses. The sequence of 3191, 3192, and 3193 may be repeated, but combined credit may not exceed six semester hours.

## Journalism

- JOUR 2700 Introduction to Journalism** 3 cr.  
Introduction to news gathering, copy, and continuity composition, basic skills and techniques of journalism in public relations, advertising, and the mass media. (Not available for credit for Speech-Education degree.)
- JOUR 2791 Independent Study** 1 cr.  
(FTCA 2791 and JOUR 2791 are cross-listed) Admission by consent of department. Reading, conferences, and preparation of articles, reports, and special projects concerning print journalism under direction of a member of the journalism faculty.
- JOUR 2792 Independent Study** 1 cr.  
(FTCA 2791 and JOUR 2791 are cross-listed) Admission by consent of department. Reading, conferences, and preparation of articles, reports, and special projects concerning print journalism under direction of a member of the journalism faculty.
- JOUR 2793 Independent Study** 1 cr.  
(FTCA 2791 and JOUR 2791 are cross-listed) Admission by consent of department. Reading, conferences, and preparation of articles, reports, and special projects concerning print journalism under direction of a member of the journalism faculty.
- JOUR 3760 Educational Journalism** 3 cr.  
(FTCA 3760 and JOUR 3760 are cross-listed) The editorial, business, and mechanical techniques of producing school publications. Designed for school publications advisers.
- JOUR 4700/G Advanced Journalism** 3 cr.  
Prerequisites: JOUR 2700; ENGL 2155; or consent of department. Writing-intensive study in advanced news reporting, news writing, and news editing.
- JOUR 4710/G Feature Writing** 3 cr.  
Reporting and writing of non-fiction feature stories in magazines, newspapers, and websites.

- JOUR 4791/G Special Topics in Journalism** 3 cr.  
Writing-intensive study of key topics of journalism. Topic will vary from semester to semester. May be repeated once for credit.
- JOUR 4792/G Independent Study** 3 cr.  
Prerequisite: at least junior standing and consent of department. Readings, conferences, reports, or a major research project under the direction of a faculty member. May be repeated once for credit.
- JOUR 6700 Special Studies in Print Journalism** 3 cr.  
JOUR 6700 will cover one specialized journalism genre per semester. Possible topics include arts journalism, investigative journalism, feature writing, and environmental and science journalism. Students will study the work of leading journalists, past and present, and use that work to guide their own development as journalists. They will also address, via literature and in-class debate, the philosophical and ethical dimensions of journalism. In addition, they will: write pitch letters outlining their story ideas and potential sources; interview experts, eyewitnesses and other human sources; find supporting studies and statistics; write rough drafts and lead in-class discussions of them, and write final drafts.

## Liberal Arts

- LA 2288 Visual and Performing Arts** 3 cr.  
A study of using the visual and performing arts as resources for classroom teaching. This course also examines community resources available in urban settings to support arts instruction in school settings. Restricted to students enrolled in the College of Education and Human Development.
- LA 3595 Academic Year Abroad-Total Immersion** 1 cr. min./12 cr. max.

## Latin

Placement of students with high school preparation in Latin: students with sufficient preparation in Latin may enter the second, third, or fourth semester course in that language, thus completing the foreign language requirement in fewer semesters. Students interested in taking placement tests should contact the Foreign Language departments. Language courses in the 1001, 1002, 2001, 2002 sequence must be taken in that order.

- LAT 1011 Introductory Latin Reading I** 3 cr.  
Offered each semester. A course for beginners with emphasis on the fundamentals of grammar and translation of stories.
- LAT 1012 Introductory Latin Reading II** 3 cr.  
Offered each semester. Prerequisite: LAT 1011 or equivalent. A continuation of LAT 1011
- LAT 2011 Intermediate Latin - Reading I** 3 cr.  
A review of the basic grammatical structure of the language with continuing and increasing emphasis on the development of advanced reading and translation skills.
- LAT 2012 Intermediate Latin - Reading II** 3 cr.  
Readings from the Aeneid of Vergil.
- LAT 2102 Selected Orations of Cicero** 3 cr.  
Departmental consent. The selections are read and interpreted with due attention to prose style
- LAT 2106 Ovid and the Lyric Poets** 3 cr.  
Readings from the Metamorphoses; readings from Catullus: Carmina, Horace: Odes and Epodes, and other selected lyrics.

## Library Instruction

- LIIN 1001 Information in Today's Society** 1 cr.  
This course will provide a basic introduction to efficient and effective use of libraries and their resources specifically those of the Earl K. Long Library. Lectures will deal with fundamentals of research and bibliography preparation in the humanities the sciences and the social sciences covering the basic abstracting and indexing services reference tools and catalogs. Emphasis will be given to modern methods of information retrieval using on-line interactive computer capability.

## Management

- MANG 2790 Business Communication** 3 cr.  
Prerequisite: ENGL 1158 and BA 2780. This course will introduce students to the interaction of business communications and information technology in the 21st century workplace. Students will learn how to use computer networks to facilitate the following tasks: compose and submit routine business messages; interact with peers on problem-solving teams; research, draft, format, and submit hypermedia reports; create and deliver business presentations; seek and maximize job-search resources.
- MANG 3070 Managing the Family Business** 3 cr.  
This course provides concepts and constructive techniques that will enable students to understand the dynamics and underlying components of the family business system. The course will allow the student to examine the complementary nature of family and business components in the successfully functioning family business. A major focus of the course is to allow the students to understand and analyze the sources for conflict associated with family businesses and to develop resources and intervention techniques to facilitate successful resolution of the conflict.
- MANG 3071 Franchise Management** 3 cr.  
For those interested in starting and managing a business, as either a franchisor or franchisee. Attention is given to the nature of the franchisor-franchisee relationship, the evaluation of franchising opportunities, financing, legal issues, promotion, site location, and business planning. Lectures, student presentations, guest speakers, case studies, and field trips are used.
- MANG 3090 Internship in Management** 3 cr.  
Prerequisite: Management 3401 and 3402 or consent of department. This course will permit undergraduates to be engaged at least ten hours per week at the site of an assigned participating organization that directs the interns in specific projects relating to their majors. Students wishing to take this course should apply a semester in advance since enrollment is limited by internships available. This course may be repeated once for credit.
- MANG 3099 Senior Honors Thesis** 3 cr.  
Offered each semester. Prerequisite: consent of department and Honors Program Director. Extended and original research paper upon a topic of current concern in management under direction of a faculty member. Section number will correspond with credit to be earned.
- MANG 3401 Introduction to Management and Organizational Behavior** 3 cr.  
Offered each semester. Prerequisites: ACCT 2100 and ECON 1203 or 1200. An examination of management practices, behavioral implications and organizational systems from the perspective of classical and contemporary theory.
- MANG 3402 Operations and Systems Management** 3 cr.  
Offered each semester. Prerequisites: Management 3401 and Mathematics 2314. A study of systems concepts and their application in

- the design and operation of profit and non-profit organizations that are engaged in the production of goods or services in the domestic and global environments.
- MANG 3467 Human Resource Management** 3 cr.  
A study of principles and policies associated with managing human resources of a business including strategic HR management, recruitment, selection, training, performance management, compensation, benefits, labor relations, and the legal environment impacting HR management.
- MANG 3472 Business Communication Oral** 3 cr.  
Offered each semester. An extensive study of oral business communication techniques, including use of visual aids. Students make oral presentations individually and in groups relating to a variety of business problems (e.g., analysis of quarterly, annual, and other financial reports; results of feasibility studies or of surveys; conducting directive and non-directive interviews; dictating skills etc.).
- MANG 3474 Computer-Based Multimedia Application for Business** 3 cr.  
Prerequisites: MANG 3471. This course builds on the written and oral communication skills that UNO business students develop in MANG 3471 Business Communication. Focus is on the development skills necessary to design and prepare various types of presentations using a multimedia approach. Students learn how to develop storyboards, choose, and prepare various media for state-of-the-art presentations.
- MANG 3491 Undergraduate Directed Individual Study in Management** 3 cr.  
Prerequisite: Approval of the directed individual study by the department chair and the supervising professor is required prior to registration. Offered each semester. The student should refer to the College of Business Administration Policy on Undergraduate Directed Individual Study available in the Management Department. This course is arranged individually in order to provide latitude for specialized study and research under the direction of a faculty member. Progress reports, conferences, and a research paper are required. May be repeated for up to six hours credit.
- MANG 3595 Academic Year Abroad: Special Topics in Management** 3 cr.  
This course is only offered through UNO's Academic Year Abroad (AYA) in Innsbruck, Austria and can be repeated once for credit.
- MANG 3778 Management Information Systems** 3 cr.  
Prerequisites: MANG 3401 and BA 2780. The nature of information systems and how computers assist management in decision making. Includes examples in creating and implementing management information systems and an analysis of computer hardware and software.
- MANG 3788 Business Application Development** 3 cr.  
Prerequisites: BA 2780 or the consent of the department. A course to develop business applications using an object-oriented programming environment. Introduces students to develop business applications quickly. Topics include Rapid Application Development (RAD), code re-use, and team development of information systems projects.
- MANG 4400 Survey of Management Topics** 3 cr.  
A survey of basic management topics in organization behavior, management information systems, and operations management. Provides an introduction to fundamental management concepts for pre-MBA students who have not had prior coursework in these areas. Not open to undergraduate College of Business majors. May not be taken for graduate credit.
- MANG 4407/G Management of Technology and Innovation** 3 cr.  
Prerequisites: senior standing. May not receive graduate credit for both MANG 4710 and MANG 6710. Basic concepts involved with the management of technology in an organizational setting. Discussion of the relationship between innovation and strategic planning, fostering creativity and innovation in an organization, and issues in implementing innovative ideas within organizational structures. Text, readings, short case studies, videos, and guest speakers who are managers in technological environments are used as presentational media. Term project required.
- MANG 4420/G Organizational Theory** 3 cr.  
Prerequisite: Management 3401 or consent of department. May not receive graduate credit for both MANG 4420 and MANG 6420. Designed to present general theory and analysis of organization design and structure. Includes a survey of both classical and contingency theories of organization, structure and process approaches to organizational design, and major dimensions of organizational design. Includes discussion of principles of organizational analysis with case studies.
- MANG 4422/G Organizational Politics** 3 cr.  
Prerequisite: MANG 3401. Advanced elective to enhance students' understanding of organizational politics and dynamics. Topics to include: career management, assertiveness, power and the political process, and stress in organizations.
- MANG 4424/G Leadership in Organizations** 3 cr.  
Prerequisite: Management 3401 or consent of department. An in-depth examination of leadership in organizations. Emphasis is upon theory and application of leadership in a variety of situations and organizational settings.
- MANG 4426/G Change Management** 3 cr.  
(Same as ENMG 4130, Change Management). Prerequisite: MANG 3401 or MANG 4400. This course is designed to provide techniques and principles concerning how to introduce change into organizations. Emphasis will be on the three phases of change; initiating change, implementing change, and institutionalizing change. Means of applying change principles will be developed through the use of templates and worksheets.
- MANG 4446/G International Management** 3 cr.  
Prerequisite: MANG 3401. May not receive credit for both MANG 4446 and MANG 6446. Primary attention of this course will be focused on the comparative study of the practice of management in selected countries under different environmental conditions. The economic, legal, political, social, and cultural differences and the effects of these differences upon business objectives, plans, organization, and operation will be examined.
- MANG 4468/G HRM Strategy and Compensation Systems** 3 cr.  
Students may not receive credit for both MANG 4468 and 6468. The basic components of human resource management strategies, the compensation process and employee benefits programs.
- MANG 4469/G Staffing and Developing Human Resources** 3 cr.  
A student may not receive credit for both MANG 4469 and 6469. The design and implementation of programs necessary to attract and develop a competent workforce. Focus on the theories and techniques of human resource planning, staffing, development, career advancement, and voluntary and involuntary termination. Emphasis on practical applications prepares students to perform or manage the relevant tasks associated with staffing and development in a modern human resources function.
- MANG 4470/G Employment Law for Managers** 3 cr.  
A student may not receive credit for both MANG 4470 and 6470. This course is a study and analysis of the legal environment of

- human resource management with emphasis on the impact of equal opportunity legislation on recruitment, selection, testing, evaluation, discipline, and termination of employees.
- MANG 4471/G Quality Management** 3 cr.  
(MANG 4471 and ENMG 4471 are cross-listed) Prerequisite: MANG 3402 or consent of department. May not receive graduate credit for both MANG/ENMG 4471 and MANG 6471. Describes the basic concepts of quality planning and quality control. Discussion on quality improvement plans, Deming philosophy, and Juran's quality trilogy, the Deming prize and Baldrige award for quality excellence, and quality circles. Study of the statistical approach to quality control and the use of control charts and other quality control tools. Case studies from around the world on the implementation of total quality management.
- MANG 4473/G Environmental Management** 3 cr.  
Prerequisite: senior standing or consent of department. Examination of the impact of environmental issues on organizational structure and operations from a management perspective with a focus on how environmental concerns create threats opportunities and affect organizational strategic management. Discussion of current environmental issues involving research and development, legislation, regulatory policies, and technological advances in environmental management and examination of the new "corporate culture" that integrates environmental considerations into organizational design. A special emphasis will be placed on public perceptions of environmental issues and how they affect business strategy.
- MANG 4477/G Purchasing Materials Management** 3 cr.  
Prerequisites: MANG 3402 or consent of department. This course examines the role of purchasing in domestic and international business environments. The course introduces purchasing and material procurement tools and techniques necessary for meeting supply-demand market impact. Legal aspects of purchasing activity will also be addressed. The course encourages students' active participation in team projects and case studies.
- MANG 4480 Business Policies and Problems** 3 cr.  
Offered each semester. Prerequisites: MANG 3402, MKT 3501, FIN 3300, and senior standing. Specific problems involved in the formulation of consistent business policies and maintenance of an efficient organization. This course is not open to graduate students.
- MANG 4487 Organization Behavior** 3 cr.  
Prerequisite: MANG 3401 or consent of instructor. May not be taken for credit in the MBA program. Not for graduate credit. A study of the problems of obtaining purposeful action through formal and informal business organizations. The development of skills in administrative relations with people focusing on ethical behavior in motivation, leadership, and communication.
- MANG 4497/G Current Topics in Management** 3 cr.  
Prerequisite: MANG 3401 or consent of department. Designed as a seminar to expose the student to current research and theory in a variety of management topics. May be repeated once for credit
- MANG 4697/G Washington Center Special Topics** 3 cr.  
The Washington, D.C. Internship Program is offered in cooperation with the Washington Center for Internships and Academic Seminars. Students of junior-level or higher standing and a grade-point average of 2.5 or better are eligible to participate in the Program. The program is conducted in Washington, D.C. and consists of an internship of four-and-a-half workdays per week, a three-hour course one night a week, and a major research paper. Participants can earn 12 credit hours during a fall or spring semester (nine hours in summer).
- MANG 4698/G Washington Center Independent Study** 3 cr.  
The Washington, D.C. Internship Program is offered in cooperation with the Washington Center for Internships and Academic Seminars. Students of junior-level or higher standing and a grade-point average of 2.5 or better are eligible to participate in the Program. The program is conducted in Washington, D.C. and consists of an internship of four-and-a-half workdays per week, a three-hour course one night a week, and a major research paper. Participants can earn 12 credit hours during a fall or spring semester (nine hours in summer).
- MANG 4710 Management of Technology and Innovation** 3 cr.  
Prerequisites: senior standing. May not receive graduate credit for both MANG 4710 and MANG 6710. Basic concepts involved with the management of technology in an organizational setting. Discussion of the relationship between innovation and strategic planning, fostering creativity and innovation in an organization, and issues in implementing innovative ideas within organizational structures. Text, readings, short case studies, videos, and guest speakers who are managers in technological environments are used as presentational media. Term project required.
- MANG 4730 Business Information Systems Analysis and Design** 3 cr.  
Prerequisite: MANG 3778. A student may not receive graduate credit for both MANG 4730 and MANG 6730. Deals with theories and techniques for analysis of information requirements and design, development, and implementation of computer-based information systems. Examples are life cycle, prototyping, end-user computing.
- MANG 4740 Network Security Management** 3 cr.  
Prerequisite: MANG 3778. A student may not receive graduate credit for both Management 4740 and 6740. Introduces network and security management topics. The business value of network resources is discussed, the threats to these resources are identified, and approaches to solving network security problems are studied. Hands-on experience is provided through student projects and lab sessions. Business cases in network management and discussed in class with emphasis on security issues.
- MANG 4750/G Knowledge Management** 3 cr.  
Prerequisite: MANG 3778 and MANG 3788. Students can only receive credit for one of the following: MANG 4750, MANG 4455, or MANG 6750. This course is a thorough introduction to the subject of knowledge management (KM) from a business management viewpoint. It includes the theoretical framework for knowledge in large and small organizations. This course covers knowledge theory, databases and data warehousing, knowledge management systems, data mining, and expert systems. Students will also complete a group project, which is a proposal for a knowledge management solution.
- MANG 4760 Managing Electronic Commerce** 3 cr.  
Prerequisite: MANG 3778 and 3788. Electronic commerce environment and business opportunities are described. Approaches to building a business on the Internet are discussed, and technologies facilitating Internet business operations are described. Internet business models including those for virtual organizations, electronic payment schemes, security, and promotion are discussed.
- MANG 4774/G Human Resource Information Systems: Queries and Reports** 3 cr.  
Prerequisite: MANG 4750 Fundamentals of Enterprise Systems Queries focusing on Human Resource Information Systems. Relationship between enterprise system tables. Constructing queries and generating reports. The course will use projects based on the PeopleSoft HRMS database to discuss querying and reporting from enterprise systems. Use of PeopleSoft SQL.

- MANG 6401 Seminar in Organizational Behavior** 3 cr.  
(MANG 6401 and ENMG 6401 are cross-listed) Prerequisite: MANG 3401 or ENMG 6101 or consent of department. A study of organizational behavior across all levels of organizational life: the individual, interpersonal, group, organizational, and society. Problems to be discussed and dealt with include motivation, communications, leadership, group dynamics, power, organizational structures and design, and various types of environmental constraints including competition, markets, and governmental regulations. Lecture, discussion, and group problem-solving project reports are included in instructional methodology.
- MANG 6420 Organization Theory and Design** 3 cr.  
Prerequisite: MANG 4400 or equivalent or consent of department. A student may not receive credit for both MANG 4420 and MANG 6420. Readings, lecture-discussion, and cases are used to explore and evaluate options in designing organizations to maximize organizational effectiveness. Design variables such as formal structure, communication networks, information systems, control and reward systems, and decision-making modes are related to effectiveness criteria in the context of internal and external constraints.
- MANG 6425 Small Group Management** 2 cr.  
Prerequisite: Admission to the EMBA Program. This course consists of three primary segments. In the first segment, students will be involved in a series of self-assessment exercises designed to highlight individual differences. In the second segment, students will work in group settings to develop their ability to work effectively in groups and to highlight the strengths of group work. In the final segment, students will be assigned/selected into a work group which will continue through the EMBA program.
- MANG 6446 International Management** 3 cr.  
Prerequisites: MANG 3401 or MANG 4400. May not receive graduate credit for both Management 4446 and MANG 6446. Deals with complex managerial problems of the multinational enterprise. The principal areas of study will be: 1) nature and scope of international business; 2) international business and the nation-state; 3) assessing and forecasting the international business environment; and 4) managing the multinational enterprise.
- MANG 6467 Managing Human Resources** 3 cr.  
A study of the theories and techniques of modern human resource management with respect to attracting, motivating, and retaining a competent workforce. Emphasis of this course is on the management of a human resource function. A student may not receive credit for both BA 6011 and MANG 6467.
- MANG 6468 Managing HR Strategy and Compensation Systems** 3 cr.  
A student may not receive credit for both MANG 4468 and 6468. A study of the management of compensation and benefit programs in medium to large organizations.
- MANG 6469 Managing Staffing and Development in HRM** 3 cr.  
A student may not receive credit for both MANG 4469 and MANG 6469. A study of the management of programs designed to acquire and develop a competent workforce.
- MANG 6470 Employment Law for Managers** 3 cr.  
Students may not receive credit for both MANG 4470 and 6470. This course is a study and analysis of the management of the legal environment of human resource management with emphasis on the impact of equal opportunity legislation on recruitment, selection, testing, evaluation, discipline, and termination of employees.
- MANG 6471 Total Quality Management** 3 cr.  
Prerequisites: QMBE 6780 or BA 6780 or both ENMG 6101 and 6112 or consent of the department. May not receive graduate credit for both MANG 4471 and 6471. The essential concepts, practices, and methods of total quality management. Guidelines for managers to provide competent and visible leadership to insure effective quality assurance. The use of statistical quality in service and manufacturing organizations. Cases on the management of TQM programs.
- MANG 6472 Project Management** 3 cr.  
(ENCE 6390, ENMG 6120, and MANG 6472 are cross-listed) Prerequisite: consent of department. Encompasses project organization structure, project planning and control. Discussions will include performance analysis based on earned value. Emphasis will be given to project management information systems. Human behavior in the project setting will be discussed.
- MANG 6476 Operations Management** 3 cr.  
Prerequisites: QMBE 6780 or ENMG 6112 or consent of department. A study of techniques used in the analysis, design, and control of organizational operations. Emphasis on total quality management of manufacturing and service sector operations. Forecasting, inventory control, layout and location, queuing, automation and JIT are discussed as well as cases and computer programs for operations management.
- MANG 6480 Seminar in Business Policies** 3 cr.  
(Open to master's candidates in their final semester only.) A study of business policies integrating the functions of all fields of business administration. The course is designed to give the student the top management viewpoint of the operation of the business enterprise. Strategy development and implementation are emphasized.
- MANG 6491 Independent Study in Management** 3 cr.  
Prerequisites: consent of department. Readings, weekly or biweekly reports, conferences, and a research paper under the direction of a graduate faculty member is required.
- MANG 6494 Internship in Management** 3 cr.  
Prerequisite: 15 hours of MBA courses with at least a 3.0 GPA and consent of the department. The student will work a minimum of 150 hours during the semester at the site of a participating organization that directs the intern in a specific Management project. Students must in addition engage in extensive outside research in the subject area related to their internship and submit a substantial report on this research reflecting a graduate level of learning. Enrollment is limited. May not be repeated for credit.
- MANG 6497 Special Topics in Management** 1 cr. min./4 cr. max.  
An intensive study of selected special topics in Management. Topics will vary based on contemporary needs as dictated by the discipline as well as the interests of the students and the instructors. Section number will correspond with credit to be earned.
- MANG 6700 Strategic Management Information Systems** 3 cr.  
Prerequisites: MANG 3778 or MANG 4400 or both ENMG 6101 and ENMG 6112 or consent from department. Information technology (IT) is more than just computers. It must be conceived of broadly to encompass information as well as a spectrum of technologies that process the information. IT helps to reduce risks and create opportunities. With this understanding, a contingency framework is introduced for allocating IT resources within the firm. A focus is given on whether a firm's IT assets are correctly aligned with its strategy, and whether the firm's organization structure, management reporting relationships, risk of project portfolio, and project management efforts are congruent with the organization's goals. These evaluations are made across a variety of stable and emerging technology solutions, including outsourcing, knowledge management, expert systems, e-business, and supply-chain management systems.

**MANG 6710 Management of Technology and Innovation** 3 cr.  
May not receive credit for both MANG 6710 and MANG 4710. Basic concepts involved with the management of technology in an organizational setting. Discussion of the relationship between innovation and strategic planning, fostering creativity and innovation in an organization, and issues in implementing innovative ideas within organizational structures. Text, readings, case studies, and videos are used as presentational media. Term project required.

**MANG 6730 Business Information System Analysis and Design** 3 cr.  
Prerequisite: MANG 6700. Students may not receive credit for both Management 4730 and Management 6730. Theories and techniques for analysis of business information requirements and design, development, and implementation of information systems. Case studies will be discussed in class and students will be required to work on a project dealing with the analysis and design of a business information system.

**MANG 6740 Network Security Management** 3 cr.  
Prerequisite: MANG 6700. A student may not receive graduate credit for both Management 4740 and 6740. Introduces network and security management topics. The business value of network resources is discussed, the threats to these resources are identified, and approaches to solving network security problems are studied. Hands-on experience is provided through student projects and lab sessions. Business cases in network management and discussed in class with emphasis on security issues.

**MANG 6750 Knowledge Management** 3 cr.  
Prerequisite: Management 6700. Students can only get credit for one of the following: Management 4750, Management 4455, or Management 6750. This course is a thorough introduction to the subject of knowledge management (KM) from a business management viewpoint. It includes the theoretical framework for knowledge and the methods and technologies that support the creation and management of knowledge in large and small organizations. This course covers knowledge theory, databases and data warehousing, knowledge management systems, data mining, and expert systems. Students will also complete a group project, which is a proposal for a knowledge management solution.

**MANG 6760 Management of Electronic Commerce** 3 cr.  
Prerequisite: MANG 6700. Background and understanding e-business and e-commerce technologies and models. Business solutions for managing customer relation, on-line communities, supply chain management, trust, and knowledge management. The course uses case studies, hands-on-research and project work, to provide an understanding of e-business technologies and their integration into existing business, focusing on managing information resources in an e-business framework.

## Mathematics

Admission to all courses at the 1000-level will be based on performance on the ACT or departmental placement exams. Students with unsatisfactory scores on these exams will be required to pass Developmental Mathematics 107 before registering for any 1000-level course.

Students who show exceptional preparation may replace introductory courses with more advanced ones, with consent of the department based on the student's performance on a special examination. No student may receive more than nine semester hours credit in courses numbered below 2000.

**MATH 1021 Problem Solving and Number Relations for Elementary Teachers** 3 cr.  
Offered each semester. Prerequisites: DEVM 0107 or satisfactory performance on either the departmental placement exam or the

ACT or SAT. A problem solving approach to the number systems of arithmetic emphasizing the use of logic and sets as the language of mathematics. This course may be used for degree credit only in the College of Education.

**MATH 1023 Problem Solving and Geometry for Elementary Teachers** 3 cr.  
Offered each semester. Prerequisite: MATH 1021. A problem solving and constructive approach to Euclidean Geometry and three dimensions. This course can be used for degree credit only in the College of Education.

**MATH 1031 A Survey of Mathematical Thought** 3 cr.  
Offered each semester. Prerequisite: Developmental Mathematics 0106 or satisfactory performance on either the departmental placement exam or the ACT or SAT. MATH 1031 is prerequisite to MATH 1032. Credit for both Mathematics 1031, and 2107 or 2111 will not be allowed. Non-technical survey of major branches of mathematics with examples of problems and methods in each.

**MATH 1032 A Survey of Mathematical Thought** 3 cr.  
Offered each semester. Prerequisite: Mathematics 1031. Credit for both Mathematics 1032, and 2107 or 2111 will not be allowed. Non-technical survey of major branches of mathematics with examples of problems and methods in each.

**MATH 1115 Algebra** 3 cr.  
Prerequisite: DEVM 0107 or satisfactory performance on the departmental placement exam, the ACT, or the SAT. Real numbers and equations, functions, polynomial functions and graphs, exponential and logarithmic functions. This course will not serve as a prerequisite to MATH 1126; it will be followed by MATH 1116, 1125, 1140, or 2314 according to major. A strong component of this course will be applications taken from different areas of concentration.

**MATH 1116 Trigonometry** 3 cr.  
Prerequisite: MATH 1115 with a grade of C or better. Introduction to trigonometric functions, graphs of trigonometric functions, trigonometric identities, applications of trigonometry, linear and non-linear systems, binomial theorem. Designed for students who are not required to take calculus. This course will not serve as a prerequisite to MATH 2107 or 2111. A strong component of this course will be applications taken from different areas of concentration. Credit for both MATH 1116 and 1126 will not be allowed.

**MATH 1125 Precalculus Algebra** 3 cr.  
Prerequisites: MATH 1115 or satisfactory performance on the departmental placement exam, the ACT, or the SAT. Fundamentals, functions, polynomials and rational functions, exponential and logarithmic functions. Designed for students anticipating enrollment in MATH 2107 or 2111. This course will be followed by MATH 1126 and both will be prerequisites to the calculus sequences.

**MATH 1126 Precalculus Trigonometry** 3 cr.  
Prerequisites: MATH 1125 with a grade of C or better. Trigonometric functions of real numbers, trigonometric functions of angles, analytic trigonometry, systems of equations and inequalities, the binomial theorem. Designed for students anticipating enrollment in MATH 2107 or 2111. Credit for both MATH 1116 or 1126 will not be allowed.

**MATH 1140 Finite Mathematics** 3 cr.  
Offered each semester. Prerequisite: MATH 1115 or consent of department. Introduction to set theory and counting techniques, probability, statistics, linear programming and application to behavioral sciences.

**MATH 1911 Precalculus** 3 cr.  
Prerequisite: DEVM 0107 or satisfactory performance on either the departmental placement exam or the ACT (or SAT). Offered each

- semester. Absolute value equations and inequalities; algebraic, logarithmic, exponential, and trigonometric functions; complex numbers; analytic trigonometry; trigonometry and triangles; systems of linear equations; binomial theorem. Students may not receive credit in both MATH 1911 and either of 1115 1126. This course is designed for students anticipating enrollment in MATH 2107 or MATH 2111.
- MATH 2090 History of Mathematics** 3 cr.  
Prerequisite: credit or registration in MATH 2109 or 2112. A survey starting with the mathematics of the Babylonians and the Egyptians, continuing with the logic, geometry, and number theory of the Greeks; development of logarithms and projective geometry, analytic geometry, calculus, and the beginnings of modern analysis and the origins of modern algebra.
- MATH 2100 Introduction to Mathematica** 1 cr.  
Prerequisite: MATH 1115 or 1126 or 1140 or consent of department. Introduction to Mathematica, a computer algebra package that combines symbolic manipulation, built-in numerical functions, and powerful graphical capabilities for doing mathematics with the help of a computer. Emphasis will be on the use of the package as a tool for solving problems in science, engineering, and business. Programming experience is not required.
- MATH 2107 Calculus and Analytic Geometry** 3 cr.  
Offered each semester. Prerequisite: MATH 1126 with a grade of C or better. MATH 2107 with a grade of C or better recommended is prerequisite to MATH 2108; MATH 2108 with a grade of C or better recommended is prerequisite to MATH 2109. These courses cover the same topics in three semesters that MATH 2111, 2112 cover in two. A student may not receive more than five hours of degree credit for taking MATH 2107 and 2111 or more than six hours for MATH 2107, 2108, and 2111 or more than 10 hours for MATH 2107, 2108, 2109, and MATH 2111, 2112.
- MATH 2108 Calculus and Analytic Geometry** 3 cr.  
Offered each semester. Prerequisite: MATH 1126 with a grade of C or better. MATH 2107 with a grade of C or better recommended is prerequisite to MATH 2108; MATH 2108 with a grade of C or better recommended is prerequisite to MATH 2109. These courses cover the same topics in three semesters that MATH 2111, 2112 cover in two. A student may not receive more than five hours of degree credit for taking MATH 2107 and 2111 or more than six hours for MATH 2107, 2108, and 2111 or more than 10 hours for MATH 2107, 2108, 2109, and MATH 2111, 2112.
- MATH 2109 Calculus and Analytic Geometry** 4 cr.  
Offered each semester. Prerequisite: MATH 1126 with a grade of C or better. MATH 2107 with a grade of C or better recommended is prerequisite to MATH 2108; MATH 2108 with a grade of C or better recommended is prerequisite to MATH 2109. These courses cover the same topics in three semesters that MATH 2111, 2112 cover in two. A student may not receive more than five hours of degree credit for taking MATH 2107 and 2111 or more than six hours for MATH 2107, 2108, and 2111 or more than 10 hours for MATH 2107, 2108, 2109, and MATH 2111, 2112.
- MATH 2111 Calculus with Analytic Geometry** 5 cr.  
Offered each semester. Prerequisite: MATH 1126 with a grade of C or better. MATH 2111 with a grade of C or better recommended is prerequisite to MATH 2112. Brief review of pre-calculus topics; limits, continuity; algebraic and transcendental functions, their derivatives, their inverses and their integrals; fundamental theorems, conic sections, maximum-minimum problems. Integration techniques, polar coordinates, sequences, series, convergence, Taylor series, L'Hospital's Rule, improper integrals, plane vectors, lines, solids of revolution.
- MATH 2112 Calculus with Analytic Geometry** 5 cr.  
Offered each semester. Prerequisite: MATH 1126 with a grade of C or better. MATH 2111 with a grade of C or better recommended is prerequisite to MATH 2112. Brief review of pre-calculus topics; limits, continuity; algebraic and transcendental functions, their derivatives, their inverses and their integrals; fundamental theorems, conic sections, maximum-minimum problems. Integration techniques, polar coordinates, sequences, series, convergence, Taylor series, L'Hospital's Rule, improper integrals, plane vectors, lines, solids of revolution.
- MATH 2115 Calculus of Several Variables** 3 cr.  
Offered each semester. Prerequisite: MATH 2109 or 2112 with a grade of C or better recommended or consent of department. Vectors and solid analytic geometry, partial derivatives, multiple integrals, line integrals, Green's Theorem, divergence, curl and applications.
- MATH 2221 Elementary Differential Equations** 3 cr.  
Offered each semester. Prerequisite: MATH 2109 or 2112 with a grade of C or better recommended or consent of department. Differential equations of first and higher order; constant coefficient equations with and without forcing terms and applications; series solutions; Laplace transforms and systems of differential equations.
- MATH 2314 Elementary Statistical Methods** 3 cr.  
Prerequisite: A grade of C or better in MATH 1115 or MATH 1125 or in six hours of mathematics courses numbered at least 1000 or consent of department. Introduction to statistical methods. Topics include data analysis, frequency distributions, probability, inference, estimation, hypothesis testing, regression and correlation. Technology is required to explore and solve problems.
- MATH 2511 Introduction to Linear Algebra** 3 cr.  
Offered each semester. Prerequisite: MATH 2109 or 2112 or consent of department. Matrices, systems of linear equations, vector spaces, linear transformations, determinants, inner products and norms, eigenvalues and eigenvectors, diagonalization.
- MATH 2785 Elementary Statistics for Business and Economics** 3 cr.  
Prerequisites: A grade of "C" or better in MATH 1115 or MATH 1125 or six hours of MATH courses numbered at least 1000 or consent of department. This course may be used for degree credit only in the College of Business Administration. Tabular and graphical presentation of data, descriptive measures including measures of location and dispersion, introduction to probability theory including Baye's Theorem, discrete distributions including Binomial and Poisson distributions, continuous distributions including Uniform, Normal and Exponential distributions, statistical inference including sampling, point and interval estimation and hypothesis testing.
- MATH 2990 Special Topics** 1 cr. min./3 cr. max.  
Prerequisite: consent of department. May be repeated up to six credit hours. Subject matter may change from semester to semester. Section number will correspond with credit to be earned.
- MATH 2998 Independent Study: Readings** 1 cr. min./3 cr. max.  
Prerequisite: consent of department. Course may be repeated to a total of three hours. The course consists of directed readings designed to meet the needs and interests of the individual student; regular conferences between the student and the instructor are required. Section number will correspond with credit to be earned.
- MATH 3099 Senior Honor Thesis** 1 cr. min./6 cr. max.  
Prerequisite: consent of department and the director of the Honors Program. Honors thesis research in mathematics under the direction of a faculty member. May be repeated until thesis is accepted for a total of six credits. Section number will correspond with credit earned.

- MATH 3221 Methods in Differential Equations** 3 cr.  
Prerequisites: MATH 2221 - Elementary differential equations, MATH 2115 - Calculus of several variables. The major emphasis of this course will be on techniques and examples. Power series solutions, linear systems, matrix methods, eigenvalues, eigenvectors, partial differential equations, Fourier series, heat equation, wave equation, Laplace's equation.
- MATH 3300 Statistical Computer Packages** 1 cr.  
Prerequisite: MATH 2314 or consent of department. Introduction to statistical packages, emphasis will be on the use of SAS.
- MATH 3400 Geometry** 3 cr.  
Spring semester. Prerequisite: MATH 2109 or 2112 or consent of department. Absolute geometry, introduction to non-Euclidean geometries, Euclidean geometries, metric approach.
- MATH 3512 Introduction to Abstract Algebra** 3 cr.  
Prerequisite: MATH 2511; MATH 3721 is recommended. An introduction to modern algebraic structures: relations, mappings, semi-groups, groups, rings and fields.
- MATH 3721 Introduction to Discrete Structures** 3 cr.  
Prerequisite: MATH 1116 or 1126. An introduction to the discrete structures that serve as a foundation for mathematics and computer science: set theory and mathematical logic; binary relations; counting and algorithm analysis; induction and strings.
- MATH 3900 Undergraduate Oral Examination** 0 cr.  
Required for graduation of all Mathematics majors. A one hour oral examination in which the student will be questioned on mathematical concepts that are familiar to him or her. Successful completion of this examination will satisfy the requirement of demonstrating oral competence. A faculty committee will grade the examination on a pass-fail basis.
- MATH 4010/G Introduction to Modern Algebra** 3 cr.  
Prerequisites: MATH 1021 and 1023. Groups, finite groups and permutation groups, rings and fields. Linear algebra, vector spaces, determinants and matrices, linear transformations. This course may be used for degree credit only in the elementary education curriculum at the undergraduate or graduate level.
- MATH 4020/G Geometry I** 3 cr.  
Prerequisite: MATH 1023. Incidence and separation in planes and spaces; congruences between lines angles and triangles; parallel postulate; perpendicular lines and planes in space; constructions with ruler and compass. This course may be used for degree credit only in the elementary education curriculum at the undergraduate or graduate level.
- MATH 4030/G Probability and Finite Mathematics** 3 cr.  
Prerequisites: MATH 1021 and 1023. Probability theory, convex sets, finite Markov chains, continuous probability theory. This course may be used for degree credit only in the elementary education curriculum at the undergraduate or graduate level.
- MATH 4101/G Advanced Calculus** 3 cr.  
Prerequisite: MATH 2115. MATH 4101 is prerequisite to MATH 4102. These courses emphasize a balance between proofs and techniques in intermediate analysis involving one and several variables. Limits, continuity, differentiation, integration and convergence. Series of functions, functional dependence, Jacobian, vector analysis or other techniques of use in applications.
- MATH 4102/G Advanced Calculus** 3 cr.  
Prerequisite: MATH 2115. MATH 4101 is prerequisite to MATH 4102. These courses emphasize a balance between proofs and techniques in intermediate analysis involving one and several variables. Limits, continuity, differentiation, integration and convergence. Series of functions, functional dependence, Jacobian, vector analysis or other techniques of use in applications.
- MATH 4213/G Fourier Series and Transforms** 3 cr.  
Prerequisite: MATH 2115 and 2221 or consent of department. Fourier series and discrete frequency spectra, Fourier integral and continuous spectra, transformation of special functions, applications in physics and engineering.
- MATH 4221/G Intermediate Ordinary Differential Equations** 3 cr.  
Prerequisite: MATH 2221 and 2511 or consent of department. Topics to be selected from the following: introduction to qualitative theory, phase plane analysis of autonomous systems, classification of equilibria, stability theory, Liapunov methods, limit cycles, Poincaré-Bendixson theorem, introduction to bifurcation theory and chaotic oscillations, Frobenius method for series solutions, special functions, Sturm comparison and separation theorems.
- MATH 4224/G Partial Differential Equations I** 3 cr.  
Prerequisite: MATH 2115 and 2221 or consent of department. Basic techniques for solving linear partial differential equations, separation of variables, eigenfunction expansions, integral transforms, Sturm-Liouville boundary value problems, initial value problems and boundary value problems for hyperbolic, parabolic, and elliptic equations, fundamental solutions, maximum principle, classical and modern applications.
- MATH 4230/G Finite Element Analysis** 3 cr.  
Prerequisites: MATH 2115, 2221 and 2511. A knowledge of Fortran or consent of department. Variational principle, weighted residual methods, finite element analysis of one and two dimensional steady state and transient boundary value problems involving partial differential equations, software development and implementations.
- MATH 4240/G Boundary Element Method** 3 cr.  
Prerequisites: MATH 2115, 2221, and 2511. Some knowledge of computer programming is also required. Weak variational formulation, fundamental solutions, formulation of two- and three-dimensional boundary element equations, potential problems, nonconvex regions, linear elasticity, fluid flows, acoustics, software development.
- MATH 4251/G Numerical Analysis** 3 cr.  
Prerequisite: MATH 2115 or consent of department. Numerical solution of systems of linear and nonlinear equations; interpolation, approximation, and minimization of functions; numerical integration.
- MATH 4252/G Numerical Analysis** 3 cr.  
Prerequisites: MATH 2221 and 4251, or consent of department. Eigenvalue problems; numerical Fourier transforms; modeling of data; introduction to numerical solution of initial and boundary value problems in ordinary and partial differential equations.
- MATH 4270/G Introduction to Optimization** 3 cr.  
Prerequisites: MATH 2115 and 2511 or consent of department. Methods for optimization of physical, economic, and business systems. Convex sets; methods for solving linear programming problems; review of classical methods of optimization; network flow analysis.
- MATH 4280/G Mathematical Modeling for Continuous Systems** 3 cr.  
Prerequisite: MATH 2115 and 2221, or consent of department. General principles in mathematical modeling, derivation and analysis of specific models using ordinary and partial differential equations; examples drawn from the applied sciences may include traffic flow, biological systems, mechanical systems, discussion of stability and dependence on parameters.

- MATH 4301/G Analysis of Variance and Experimental Design** 3 cr.  
Prerequisite: MATH 2314 or other introductory level statistics course, or consent of department. Only one of MATH 4301 or MATH 6301 may be counted toward a master's degree in Mathematics. An introduction to the SAS statistical computer package. Basic analysis of variance with fixed and random effects models, multifactor analysis of variance, analysis of covariance. Experimental designs including completely randomized designs, randomized block designs, nested designs, and Latin squares.
- MATH 4304/G Introduction to Regression Analysis** 3 cr.  
Prerequisite: MATH 2314 or other introductory level statistics course, or consent of department. Only one of MATH 4304 or 6304 may be counted toward a master's degree in Mathematics. Linear regression, inferences in regression analysis, aptness of model and remedial measures, matrices, multiple and polynomial regression, indicator variables, multi-collinearity, selection of independent variables, nonlinear regression. SAS will be used for data analysis.
- MATH 4310/G Matrix Theory For Statistics** 3 cr.  
Prerequisite: MATH 2511 or the consent of the department. Emphasis is on topics in matrix theory which frequently arise in the study of statistics. Topics include eigenvalues and eigenvectors, generalized inverses, matrix decomposition, linear systems, matrix derivatives, and special matrices. Topics in statistics are not a portion of this course.
- MATH 4311/G Introduction to Mathematical Statistics** 3 cr.  
Prerequisite: MATH 2109 or 2112 or consent of department. MATH 4311 is prerequisite to MATH 4312. Axiomatic probability, discrete and continuous distributions, expectation, estimation, central limit theorem, confidence intervals and tests of hypotheses, regression, Bayesian statistics, other topics.
- MATH 4312/G Introduction to Mathematical Statistics** 3 cr.  
Prerequisite: MATH 2109 or 2112 or consent of department. MATH 4311 is prerequisite to MATH 4312. Axiomatic probability, discrete and continuous distributions, expectation, estimation, central limit theorem, confidence intervals and tests of hypotheses, regression, Bayesian statistics, other topics.
- MATH 4341/G Nonparametric Statistics** 3 cr.  
Prerequisite: MATH 4301 or 4304, or consent of department. Organizing and summarizing data; one-sample, two-sample, and k-sample tests; tests based on the binomial distribution; confidence intervals; Wilcoxon type tests; Kruskal-Wallis and Friedman tests; contingency tables; tests based on ranks; and Kolgoromov-Smirnoff type statistics.
- MATH 4370/G Actuarial Mathematics I** 3 cr.  
Prerequisites: Math 4311 or Math 2314 and Math 2109 (or Math 2112) and consent of department. General probability, random variables and probability distributions, multivariate distributions, risk and insurance, applications of each of the above topics to actuarial problems. This is the material covered on Exam P (Probability) and Exam 1 administered by the Society of Actuaries and the Casualty Actuarial Society respectively.
- MATH 4411/G Introduction to Complex Analysis** 3 cr.  
Prerequisite: MATH 2115 or consent of department. Complex plane, analytic functions, Cauchy-Riemann equations, mappings by elementary functions, complex integration, Cauchy's theorem, Cauchy integral formula and applications, Taylor series, Laurent series, isolated singularities, residue theorem and applications.
- MATH 4511/G Linear Algebra** 3 cr.  
Prerequisite: MATH 2511 or 3512. Inner product spaces, dual spaces, canonical forms, the spectral theorem, quadratic forms, operators, the classical groups, multilinear algebra and applications.
- MATH 4512/G Abstract Algebra** 3 cr.  
Prerequisite: MATH 3512. Ideals, Euclidean and principal ideal domains, finite fields, Sylow theorems, and solvable groups.
- MATH 4518/G Elementary Number Theory** 3 cr.  
Prerequisite: consent of department. Divisibility, congruences, power residues, quadratic residues, certain arithmetic functions and selected topics.
- MATH 4524/G Mathematical Logic** 3 cr.  
Prerequisite: MATH 3721 or 3512 or consent of department. Propositional and predicate calculus; formal systems; computability and decidability.
- MATH 4530/G Introduction to Cryptography** 3 cr.  
(MATH 4530 & CSCI 4130 are cross-listed) Prerequisites: MATH 3721 or consent of department. Elementary ciphers, Data Encryption Standard, Advanced Encryption Standard (Rijndael), Rivest-Adleman-Shamir (RSA) Encryption, and other topics in modern cryptography (subject to change as progress in field changes). This course is aimed at both CSCI and MATH majors, with both programming assignments and proofs as problem options.
- MATH 4611/G Topology** 3 cr.  
Prerequisite: MATH 4101 or consent of department. Topological spaces, continuous maps and homeomorphisms, product spaces, connectedness, separation axioms, compactness, and metric spaces.
- MATH 4711/G Graph Theory** 3 cr.  
Prerequisite: MATH 2511 or MATH 3721 or consent of department. An introduction to graph theory and its applications; the basic theorems and algorithms. Paths and cycles, colorings, planarity, directed graphs, networks.
- MATH 4721/G Combinatorics** 3 cr.  
Prerequisite: MATH 2511 or 3721 or consent of department. Permutations, combinations, and partitions; inclusion-exclusion principle; generating functions and recurrence relations; matchings; combinatorial designs.
- MATH 4801/G Actuarial Probability I** 3 cr.  
Prerequisites: MATH 2314 and MATH 2109 (or MATH 2112) or consent of department. General probability, random variables and probability distributions, moments of a random variable, applications of each of the above topics to actuarial problems, exam P practice. This is the first part of the material covered on Exam P (Probability) and Exam 1 administered by the Society of Actuaries and the Casualty Actuarial Society, respectively.
- MATH 4802/G Actuarial Probability II** 3 cr.  
Prerequisites: MATH 4801 and MATH 2115 or consent of department. Multivariate distributions, risk and insurance, moments of several random variables, some discrete random variables and applications, some continuous random variables, normal approximations, and applications of each of the above topics to actuarial problems, exam P practice. This is the second part of the material covered on Exam P (Probability) and Exam 1 administered by the Society of Actuaries and the Casualty Actuarial Society, respectively.
- MATH 4803/G Financial Math I** 3 cr.  
Prerequisites: MATH 2107 or consent of department. The Measurement of Interest, problems in interest, elementary annuities, yield rates, amortization schedules and sinking funds, bond and other securities, practical applications, more advanced financial analysis, a stochastic approach to interest. This is the material covered on Exam FM (Financial Mathematics) and Exam 2 administered by the

- Society of Actuaries and the Casualty Actuarial Society, respectively. This course requires the use of a financial calculator.
- MATH 4804/G Financial Mathematics II** 3 cr.  
Prerequisites: MATH 2314, MATH 2109 (or MATH 2112), MATH 4803 or consent of department. Forward price, no-arbitrage, pricing and risk-neutrality, options and their properties, the binomial model, stochastic models, options Greeks, exotic options, interest rate models. This is the material covered on Exam MFE administered by the Society of Actuaries.
- MATH 4990/G Special Topics** 3 cr.  
Prerequisite: consent of department. Six hours maximum will be accepted for graduate credit.
- MATH 4991/G Special Topics** 3 cr.  
Prerequisite: consent of department. Six hours maximum will be accepted for graduate credit.
- MATH 4992/G Special Topics** 3 cr.  
Prerequisite: consent of department. Six hours maximum will be accepted for graduate credit.
- MATH 4998/G Selected Readings in Mathematics** 1 cr. min./3 cr. max.  
Prerequisite: consent of department. This course may be repeated to a total of six credits. The course consists of directed readings designed to meet the needs and interests of the individual student; regular conferences between the student and the instructor are required. The section number will correspond with credit to be earned.
- MATH 6005 Higher Algebra** 3 cr.  
Prerequisites: a working knowledge of college algebra and consent of department. (This course is intended for candidates in the M.A. in Science Teaching program.) Topics covered include inequalities, complex numbers, theory of equations, mathematical induction, binomial theorem, progressions, infinite series and applications.
- MATH 6006 Analytic and Vector Geometry** 3 cr.  
Prerequisites: a working knowledge of plane geometry and college algebra and consent of department. (This course is intended for candidates in the M.A. in Science Teaching program.) Plane and solid geometry by analytic methods. Topics covered include vectors, lines, conic sections, translation and rotation of axes, polar coordinates, parametric representations; plane and three-space curves and surfaces.
- MATH 6007 Topics in Higher Algebra and Geometry** 3 cr.  
Prerequisite: MATH 6005 or 6006 or consent of department. (This course is intended for candidates in the M.A. in Science Teaching program.) Topics selected from inequalities, theory of equations, Euclidean geometry, and non-Euclidean geometry.
- MATH 6020 Geometry** 3 cr.  
Prerequisite: MATH 4020. Space figures: similarity and trigonometry, area and volume measurement, elements of spherical geometry, plane coordinate geometry. This course may be used for degree credit only in the elementary education curriculum.
- MATH 6201 Introduction to Applied Mathematics** 3 cr.  
Prerequisites: MATH 4101. MATH 4101 may be taken concurrently. System of linear ordinary differential equations, fundamental matrices, nonlinear systems of ODE's, stability, limit cycles, separation of variables, heat equation, wave equation, Laplace's equation, Sturm-Liouville boundary value problems, Green's functions, integral transforms, conformal mapping, complex integration.
- MATH 6202 Introduction to Applied Mathematics** 3 cr.  
Prerequisites: MATH 4101 or consent of department. Dynamical systems, elementary bifurcations, chaos, nonlinear PDE, characteristics, shocks, calculus of variations, Euler-Lagrange equation, normed linear spaces, linear operators, convex analysis, optimization.
- MATH 6211 Applied Analysis** 3 cr.  
Prerequisite: MATH 4104 or 4411. Calculus of residues, Fourier and Laplace transforms, orthogonal expansion; special functions; solution of boundary value problems of partial differential equations by various methods; separation of variable, transform techniques; Sturm-Liouville theory; perturbation and asymptotic developments; Green's functions; the method of characteristics.
- MATH 6221 Advanced Differential Equations** 3 cr.  
Prerequisites: MATH 4101 or 4221. Ordinary differential equations in the real and complex domains, existence and uniqueness theorems, linear systems with constant and periodic coefficients. Linear differential equations of order  $n$ , self-adjoint eigenvalue problems, nonlinear equations, and stability theory.
- MATH 6224 Partial Differential Equations II** 3 cr.  
Prerequisite: MATH 4224 or consent of department. Topics in modern linear and nonlinear partial differential equations, distributions and weak solutions, method of characteristics, shock waves, Green functions, fixed point theorems, reaction diffusion equations.
- MATH 6230 Advanced Finite Element Analysis** 3 cr.  
Prerequisites: MATH 4224 or consent of department; Mathematics 4230 is recommended; some knowledge of computer programming is required. Galerkin method, linear triangular elements, bilinear rectangular elements, axisymmetric elements, isoparametric elements, heat transfer by conduction and convection, torsion of non-circular sections, ground water with sources and sinks, biharmonic equation, vibration of membrane, iterative methods, software maintenance and development.
- MATH 6242 Functional Analysis** 3 cr.  
Prerequisite: MATH 4102 or consent of department. Topics will be selected from the following: metric spaces, normed spaces, Banach spaces, functionals, dual spaces and weak topology, inner product spaces, Hilbert spaces, compact operators, spectral analysis, fixed point theorems, implicit function theorem, Fredholm theory.
- MATH 6251 Numerical Ordinary Differential Equations** 3 cr.  
Prerequisite: MATH 4252 or consent of department. Existence and approximation theorems for ordinary differential equations and systems of ordinary differential equations. Convergence, stability, and error analysis.
- MATH 6258 Finite Difference Methods** 3 cr.  
Prerequisites: MATH 2115, 2221 and 2511 or consent of department; Mathematics 4101 is recommended; some knowledge of computer programming is required. Introduction to finite difference methods for solving partial differential equations. Convergence, consistency, stability, description and analysis of various explicit and implicit schemes for parabolic and hyperbolic equations.
- MATH 6260 Optimal Control** 3 cr.  
Prerequisites: MATH 2221 and 4102 or consent of department. The calculus of variations and the Pontryagin maximum principle. Optimal control of linear and nonlinear systems. Algorithms for computing optimal controls.
- MATH 6270 Advanced Optimization** 3 cr.  
Prerequisite: MATH 4101 or consent of department; Mathematics 4270 is recommended. Theory and application of advanced computational methods for extremizing linear and nonlinear functions of many variables including constrained and unconstrained problems. Particular topics include a review of the simplex method an introduction to interior point methods for linear programming problems, descent methods, Newton-like methods, conjugate direction methods, and quadratic and nonlinear programming.

- MATH 6290 Topics in Numerical Analysis** 3 cr.  
Prerequisite: consent of department.
- MATH 6300 Statistical Programming with SAS** 3 cr.  
Prerequisites: Previous experience using the SAS statistical package or consent of department. Proc IML, SAS macros and applications, Monte Carlo methods, resampling methods including bootstrap and jackknife, selected SAS procedures, statistical report writing with SAS.
- MATH 6301 Applied Statistics** 3 cr.  
Prerequisite: MATH 4301 or consent of department. Only one of MATH 4301 or 6301 may be counted toward a master's degree in mathematics. Data analysis, analysis of variance, regression analysis, nonparametric methods, use of computer packages.
- MATH 6303 Multivariate Statistical Analysis** 3 cr.  
Prerequisite: MATH 6301 or consent of department. Multivariate normal distribution, test of hypothesis on means, multivariate analysis of variance, canonical correlation.
- MATH 6304 Regression Analysis** 3 cr.  
Prerequisite: MATH 6301 or consent of department. Linear regression, regression diagnostics, multiple regression, nonlinear regression. Only one of MATH 4304 or 6304 may be counted toward a master's degree in Mathematics.
- MATH 6311 Mathematical Statistics** 3 cr.  
Prerequisites: Consent of department. MATH 6311 is prerequisite to MATH 6312. Theory of probability distributions, random variables and functions of random variables, multivariate and conditional distributions, order statistics, sampling distributions, theory of estimation and hypothesis testing.
- MATH 6312 Mathematical Statistics** 3 cr.  
Prerequisites: Consent of department. MATH 6311 is prerequisite to MATH 6312. Theory of probability distributions, random variables and functions of random variables, multivariate and conditional distributions, order statistics, sampling distributions, theory of estimation and hypothesis testing.
- MATH 6321 Sampling Theory** 3 cr.  
Prerequisite: MATH 6311 or consent of department. Simple random sampling with and without replacement, sampling with varying probabilities, stratified sampling, cluster sampling, subsampling, systematic sampling, two-stage sampling, and sequential sampling.
- MATH 6331 Categorical Data Analysis** 3 cr.  
Prerequisite: MATH 6311 and 6312 or consent of department. Analysis of contingency tables, exact small sample tests, large sample inference, logistic regression, logit, probit, extreme value, loglinear and other generalized linear models, model building and applications.
- MATH 6341 Linear Statistical Models** 3 cr.  
Prerequisite: MATH 6312 or consent of department. Multivariate normal distribution, matrix operations, distributions of quadratic forms, general linear hypotheses, standard models, computing techniques.
- MATH 6342 Design of Experiments** 3 cr.  
Prerequisite: MATH 6341 or consent of department. Matrix methods including calculus, principles of experimental design, techniques of analysis.
- MATH 6351 Time Series Analysis** 3 cr.  
Prerequisite: MATH 6311 or consent of department. Autocorrelation, spectral analysis and filtering, autoregressive (AR) models, moving average (MA) models, ARMA models, ARIMA models, model identification, forecasting, and estimation of parameters.
- MATH 6361 Statistical Quality Control** 3 cr.  
Prerequisite: MATH 4301 or 4304 or consent of department. Management and quality, construction and analysis of control charts for variables and attributes, Markov chain representations of control charts, capability analysis, reliability, continuous sampling plans, acceptance sampling, tolerances.
- MATH 6362 Reliability Theory** 3 cr.  
Prerequisite: MATH 6301 or consent of department. Reliability of coherent systems, distributions in reliability, classes of life distributions, maintenance and replacement policies, availabilities, competing risks, reliability hypothesis testing, estimation of reliability functions, regression models for reliability data, and fault tree analysis.
- MATH 6370 Statistical Consulting** 3 cr.  
Prerequisite: consent of the department. Theory and practice of effective statistical consulting. Communication with clients, problem solving, and report writing. May be repeated for credit. Students may not count more than six semester hours credit for MATH 6370 toward a degree in Mathematics.
- MATH 6371 Probability** 3 cr.  
Prerequisite: MATH 4311 or consent of department. Measure theoretic origins, infinite dimensional probability spaces, modes of convergence, laws of large numbers, central limit theorems; certain topics from infinitely divisible laws, stochastic processes, separability, martingales and semi-martingales, ergodic theory, systems theory and stopping rules.
- MATH 6372 Mathematics of Financial Derivatives** 3 cr.  
Prerequisite: credit or concurrent registration in MATH 4311 or the consent of the department. A brief introduction to financial derivatives, normal random variables, geometric brownian motion, stochastic differentiation, stochastic integration, Ito's lemma, the Black-Scholes PDE and its solution.
- MATH 6381 Biostatistics** 3 cr.  
Prerequisite: MATH 6311 or consent of the department. Biostatistical design of medical studies, one- and two-sample inference, counting data, nonparametric, distribution-free and permutation models: robust procedures, simple and multiple regression, multiple comparisons, cross-over designs, discrimination and classification, and other topics.
- MATH 6382 Statistical Analysis of Survival Data** 3 cr.  
Prerequisite: MATH 6311 and 6312 or consent of department. Failure times, censoring mechanisms, failure rates, survival functions, product limit estimators, covariates, Cox model, partial likelihood, exponential regression, rank tests, and other topics.
- MATH 6385 Longitudinal Data Analysis** 3 cr.  
Prerequisite: MATH 6311, 6312 or consent of department. Presentations of longitudinal data, general linear models for longitudinal data, parametric models for covariance structure, analysis of variance methods, marginal models, random effects models, methods for discrete longitudinal data.
- MATH 6390 Topics in Probability and Statistics** 3 cr.  
Prerequisite: consent of department.
- MATH 6411 Complex Analysis** 3 cr.  
Prerequisite: MATH 4411. Analytic continuation, reflection principle, argument principle, Rouché's theorem. Convergence of sequences, series, and infinite products of analytic functions. Entire functions, conformal mappings, Riemann mapping theorem, Riemann surfaces, gamma function, Riemann zeta function.

- MATH 6450 Measure and Integration** 3 cr.  
Prerequisite: MATH 4102 or consent of department. MATH 6450 is prerequisite to MATH 6451. Measure theory, integration, types of convergence, absolute continuity, function spaces.
- MATH 6451 Measure and Integration** 3 cr.  
Prerequisite: MATH 4102 or consent of department. MATH 6450 is prerequisite to MATH 6451. Measure theory integration types of convergence absolute continuity function spaces.
- MATH 6490 Topics in Analysis** 3 cr.  
Prerequisite: consent of department.
- MATH 6491 Topics in Analysis** 3 cr.  
Prerequisite: consent of department.
- MATH 6492 Topics in Analysis** 3 cr.  
Prerequisite: consent of department.
- MATH 6511 Algebra** 3 cr.  
Prerequisite: MATH 4512. Infinite Abelian groups, ordered groups, free groups, finite groups, rings, fields, field extensions, finite fields, Galois theory.
- MATH 6590 Topics in Algebra** 3 cr.  
Prerequisite: consent of department.
- MATH 6591 Topics in Algebra** 3 cr.  
Prerequisite: consent of department.
- MATH 6592 Topics in Algebra** 3 cr.  
Prerequisite: consent of department.
- MATH 6611 Topology** 3 cr.  
Prerequisite: MATH 4611. Homotopy, dimension theory, uniform spaces, compactification and other basic advanced topics.
- MATH 6690 Topics in Topology** 3 cr.  
Prerequisite: MATH 6611 or consent of department.
- MATH 6998 Advanced Readings in Mathematics** 1 cr. min./3 cr. max.  
Prerequisite: consent of department. This course may be repeated to a total of six credits. The course consists of directed readings designed to meet the needs and interests of the individual student; regular conferences between the student and the instructor are required. The section number will correspond with credit to be earned.
- MATH 7000 Thesis Research** 1 cr. min./9 cr. max.  
To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.
- MATH 7040 Examination or Thesis Only** 0 cr.  
No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

## Military Science

- MILS 1001 Dynamics of Leadership I & Lab** 2 cr.  
Offered fall semester. An introductory course on the history and organization of Army ROTC and an initial study of leadership traits, principles, and characteristics. The student is introduced to the characteristics and capabilities of individual and crew-served weapons such as the M-16 rifle and the M-60 machine gun. The student is further oriented to the customs and courtesies of the military service and is given a brief overview of the present pay system, service benefits, and the national defense structure, and the

basic organization and functions of a military squad and platoon. Course includes periodic field trips. Two hours of lecture.

- MILS 1002 Dynamics of Leadership II** 2 cr.  
Offered spring semester. Prerequisite: MILS 1001 or consent of department. A continuation of leadership training to include: weapons training (assembly and disassembly procedures for the M-16 rifle and M-60 machine gun), communications (radio-telephone procedures, use of a CEOL), first-aid (bleeding, shock, burns, fractures, CPR), and concluding with training in NBC (nuclear, biological, chemical) topics. Course includes periodic field trips. Two hours of lecture.
- MILS 2001 Management Techniques I & Lab** 2 cr.  
Offered fall semester. Prerequisite: MILS 1002 or consent of department. The course begins with an introduction to military map reading covering topics such as: grid coordinates, elevation, relief, distance, polar coordinates, intersection, and resection. Concludes with preliminary marksmanship instruction covering topics such as: mechanical training (assembly and disassembly, operation and functioning, care and cleaning, stoppage, immediate action, remedial action, malfunctions) and marksmanship fundamentals (aiming, steady hold factors, firing positions). Course includes training in physical conditioning and periodic field trips. Two hours of lecture and three hours of laboratory.
- MILS 2002 Management Techniques II** 2 cr.  
Offered spring semester. Prerequisite: MILS 2001 or consent of department. An introduction to management principles and techniques. Includes a discussion of leadership principles and application of leadership techniques. Course concludes with an introduction to military correspondence, discussion of customs and traditions, and Ranger Challenge skills such as knot tying and rope bridge. Course includes training in physical conditioning and periodic field trips. Two hours of lecture and three hours of laboratory.
- MILS 3001 Advanced Tactics I & Lab** 3 cr.  
Offered fall semester. Prerequisite: MILS 2002 or consent of department. Introduction to U.S. Army tactical concepts and procedures, principles and evolution of war, and relationship between weapons and tactics. Includes a comparative study of U.S. and U.S.S.R. organizations, advanced map reading and terrain association, operation orders format, and concludes with a study of offensive operations (movement techniques formations, control measures, conduct of the offense, and offensive operation order exercise). Course includes training in physical conditioning and periodic field trips. Three hours of lecture and three hours of laboratory.
- MILS 3002 Advanced Tactics II** 3 cr.  
Offered spring semester. Prerequisite: MILS 3001. Continuation of the study of U.S. Army tactical concepts. The course begins with a study of defense operations (range cards and sector sketches, retrograde operations) and continues with patrolling techniques, low intensity conflict, call for fire. Concludes with an overview of advanced camp communication procedures, physical training program, practical application of drill and ceremonies, review of tactics, and explanation of the tactical application exercise. Course includes training in physical conditioning and periodic field trips. Three hours of lecture and three hours of laboratory.
- MILS 3402 Ethics of Leadership** 3 cr.  
Prerequisite: Military Science 3002. First part of the capstone course leading to commissioning in the U.S. Army. Course includes a study of military ethics and professionalism (introduction to the profession of arms, basic understanding of the professional soldier's responsibilities to the Army and the nation, an awareness and sensitivity to ethical issues, improved ethical decision making skills). Course concludes with cadet presentation of professional

knowledge subjects (conduct briefings, military correspondence, information decision paper, after-action report, counseling techniques, intelligence and combat information, post and installation support). Course includes training in physical conditioning and periodic field trips. Two hours of lecture and three hours of laboratory.

**MILS 4001/G Professionalism of Leadership I & Lab** 2 cr.

Fall semester. Prerequisites: MILS 3002. A study of military ethics and professionalism (introduction to the profession of arms, basic understanding of the professional soldier's responsibilities to the Army and the Nation, an awareness and sensitivity to ethical issues, improved ethical decisions making skills). Course concludes with cadet presentation of professional knowledge subjects (conducts briefings, military correspondence, information/decision paper, after-action report, counseling techniques, intelligence and combat information, post and installation support). Includes training in physical conditioning and periodic field trips. Two hours of lecture and one hour of laboratory.

**MILS 4002/G Professionalism of Leadership II** 2 cr.

Spring semester. Prerequisite: MILS 4001. Emphasis is on command and staff functions, planning and preparation of training, logistics, and personal management. Course concludes with the study of military justice and the law of war. Includes training in physical conditioning and periodic field trips. Two hours of lecture and one hour of laboratory.

## Marketing

**MKT 3501 Principles of Marketing** 3 cr.

Offered each semester. Prerequisite: ECON 1203. A course designed to introduce the role of marketing in society. Particular emphasis is placed on those market-related variables which are subject to control by the firm. The viewpoint taken is that of the marketing manager whose role it is to make decisions relating to marketing strategy.

**MKT 3505 Consumer Behavior** 3 cr.

Offered each semester. Prerequisites: MKT 3501 and three hours of psychology. An interdisciplinary approach to the study of the decision-making process as it applies to the purchase of consumer goods. The viewpoint of both consumer and of the marketing manager are considered so that the student may apply the principles of the courses to personal as well as professional life. A wide variety of examples is used to establish the practical value of the subjects discussed. Graduate students will not receive credit for both Marketing 3505 and 6510.

**MKT 3510 Introduction to Marketing Research** 3 cr.

Prerequisites: MKT 3501 BA 2780 and QMBE 2786. The scientific method is applied to the solution of marketing problems for the development of sound marketing strategies. Basic methodologies and applications are stressed. Analytical techniques and analysis beyond those in QMBE 2786 are introduced.

**MKT 3511 Applied Marketing Research** 3 cr.

Prerequisites: MKT 3510 and BA 2780 or approved substitutes. The student proposes, formulates, and executes a marketing research study, utilizing the techniques developed in MKT 3510. Discussion of exploratory research techniques, case studies, and advanced statistical analysis. Research costs will be incurred by the student.

**MKT 3515 Personal Selling** 3 cr.

Prerequisite: MKT 3501. Training in the current theories and practice of selling to organizational buyers. Role playing, videotaped presentations, and other techniques are employed to enhance interpersonal communication skills. The course cannot be taken for credit in the M.B.A. Program.

**MKT 3520 Direct Response Marketing** 3 cr.

Prerequisite: MKT 3501. The theory and practice of direct response marketing as an aspect of the total marketing system for both small and large businesses. Emphasis is given to direct mail, print and broadcast advertising, telephone promotion, and interactive media. Development of student's analytical techniques needed for successful application in profit and nonprofit organizations, both public and private.

**MKT 3526 The Legal Environment of Marketing** 3 cr.

Prerequisites: BA 3010 and MKT 3501. A study of the federal anti-trust laws and other federal and state laws regulating and affecting the sales, marketing, and distribution processes. Subject areas include price fixing laws, exclusive dealings and tie-in arrangements, patent laws, horizontal and vertical restraints of trade, illegal boycotts and discriminatory discounts, illegal advertising, product liability, and consumer protection laws.

**MKT 3530 Sales Management** 3 cr.

Prerequisite: MKT 3501. The theory and practice of recruiting training motivating and compensating the professional sales force with emphasis on the role of the salesman in buyer-seller relationships.

**MKT 3540 Promotion Management** 3 cr.

Prerequisite: MKT 3501. An overview of promotion management providing a framework for integrating the promotion functions of advertising, personal selling, sales promotion, and publicity.

**MKT 3550 Sport and Event Marketing** 3 cr.

Prerequisite: MKT 3501. Sport and Event marketing will examine applications of marketing concepts, tools, and models to the marketing of sporting, corporate, cultural, historical and charitable activities and events. During the course of the semester, the students will examine the issues and strategies involved in the performance, production, and promotion of events.

**MKT 3552 Retailing** 3 cr.

Prerequisite: MKT 3501. Store organization, operation, and management; and problems and practices of retailers in buying, selling, control, and promotion.

**MKT 3553 Retailing Cases and Problems** 3 cr.

Prerequisites: MKT 3501 and MKT 3552. Advanced course in retailing management using case studies and special projects to examine selected retail organizations and for organizational situations. In a seminar format, principles of retail strategy and organization are applied to retail management decisions.

**MKT 3570 Business-to-Business Marketing** 3 cr.

Prerequisite: MKT 3501. The course emphasizes the special nature of marketing to organizations as opposed to individual consumers. These organizations include commercial enterprises, institutions, and government units. Emphasis is placed on providing frameworks which can be used by business marketers to help develop more effective marketing strategies.

**MKT 3580 Advertising** 3 cr.

Prerequisite: MKT 3501. Analysis of principal means of promotion. Includes preparation of an advertising campaign and appropriation determination. Brief treatment of personal selling and secondary promotional devices.

**MKT 3590 Topic Seminar in Marketing** 3 cr.

Prerequisite: nine hours of marketing Senior standing or consent of department. Topics of current interest in marketing. Topic changes from semester to semester.

**MKT 3591 Independent Study in Marketing** 3 cr.

Offered each semester. Prerequisite: MKT 3501 and approval of the directed individual study by the department chair and the supervising professor is required prior to registration. The students

- should refer to the College of Business Administration Policy on Directed Individual Study available in the Marketing Department. This course is arranged individually in order to provide latitude for specialized study and research under the direction of a faculty member. Progress reports, readings, conferences, and a research paper are required. May be repeated once for credit.
- MKT 3595 Academic Year Abroad:**  
**Special Topics in Marketing** 3 cr.  
 This course is only offered through UNO's Academic Year Abroad (AYA) in Innsbruck, Austria and can be repeated once for credit.
- MKT 3599 Senior Honors Thesis** 3 cr.  
 Offered each semester. Prerequisites: MKT 3510 consent of department consent of director of the Honors Program and grade point averages of at least 3.5 in marketing and at least 3.25 overall. Senior honors thesis research in marketing under the direction of a faculty member. Students may earn up to a total of six credits.
- MKT 4400 Marketing Foundations for Managers** 3 cr.  
 An approach to marketing management concepts and practice intended for managerial use. This course is intended to prepare students for graduate study in Business Administration. Emphasis will be placed on familiarizing pre-MBA students with the application of marketing management techniques in business decision-making as it concerns the development and strategic positioning of the firm and its offerings in a competitive environment. Not open to undergraduate students. This course may not be taken for graduate credit. Students may not receive credit for both MKT 3501 and MKT 4400.
- MKT 4520/G Technology and Marketing** 3 cr.  
 Prerequisite: Marketing 3501. This course covers both the impact of new information technologies on traditional marketing and marketing in industries undergoing high levels of technological change. Subject areas such as e-commerce, database marketing, business-to-business marketing, and customer contact management are examined and illustrated in industry settings that emphasize innovation through the development of new technologies. These industries, but are not limited to, communications, information processing, education, entertainment, and health care.
- MKT 4535/G Services Marketing** 3 cr.
- MKT 4536/G Health Care Marketing** 3 cr.  
 Application of marketing principles and concepts to contemporary Health Care Industry issues. This course is specifically designed to introduce Health Care employees to marketing thought and processes and business students to the marketing issues relevant to contemporary management operations in a Health Care environment. Students in MBA program may not enroll in this course.
- MKT 4546/G International Marketing Management** 3 cr.  
 Prerequisites: MKT 3501. A study of the significant aspects of international business operations including the historical development of foreign trade policy and operative problems of international business operations, private and public organizations in foreign trade, and the legal dimensions of foreign trade. Graduate students will not receive credit for both MKT 4546 and 6546.
- MKT 4570/G Distribution Channels** 3 cr.  
 Prerequisites: MKT 3501. Theory and practice of analysis and management of interfirm relationships within the marketing channel. Oriented toward strategic planning, the course examines the scope, environments, and dynamics of channel structure with a strategic planning orientation.
- MKT 4575/G Logistics** 3 cr.  
 Prerequisites: MANG 3402 and MKT 3501. A study of the flow of goods as it relates to the success of the firm. Topics include transportation and storage and their control, information flow, inventory, location theory, and scheduling.
- MKT 4580 Marketing Management** 3 cr.  
 Prerequisite: 12 hours of marketing which must include MKT 3501, MKT 3505, and 3510. Focuses on the steps of marketing planning, which include planning, implementing, and controlling marketing programs. This includes product and brand development, channels of distribution, promotion, and pricing. The course cannot be taken for credit in the M.B.A. program.
- MKT 4585 Marketing Internship** 3 cr.  
 Prerequisite: MKT 3501 and consent of department. The student intern works for ten to twenty hours per week at the sight of a participating organization which directs the intern in a specific marketing project. Students desiring to take this course should apply early. Enrollment is limited by the internships available. This course cannot be taken for graduate credit.
- MKT 4590 Marketing Strategy** 3 cr.  
 Prerequisites: 15 hours of marketing which must include MKT 3501, 3505, 3510, and 4580. Designed to provide the student with a cohesive understanding of managerial decision making in marketing. Emphasizes conceptualizing marketing problems, conducting situation analyses, formulating creative alternatives, and thorough strategy implementation. The course cannot be taken for credit in the M.B.A. Program.
- MKT 6333 Real Estate Finance and Market Feasibility Analysis** 3 cr.  
 Prerequisite: one of the following: FIN 6300, URBN 6165, FIN 4366, or FIN 4368. A survey of the physical characteristics and the market, economic, and financial considerations which enter into the decision process for selecting business locations. Addresses the allocation of land resources among a number of possible revenue-producing uses and the impact of location considerations on the profitability of the firm. An extensive field research project is an integral part of the course.
- MKT 6503 Strategic Marketing Management** 3 cr.  
 Prerequisite: MKT 3501 or MKT 4400 or ENMG 6101 or consent of the department. Students with an undergraduate marketing degree may replace MKT 6503 with an approved graduate marketing elective. Development of the ability to solve marketing problems using the case method. Emphasis is given to the use of data obtained from business firms.
- MKT 6510 Advanced Analysis of Consumer Behavior** 3 cr.  
 Prerequisite: MKT 6503. Theoretical, conceptual, and methodological issues in consumer behavior. Emphasis will be on current publications, breakthroughs, and research.
- MKT 6520 Technology and Marketing** 3 cr.  
 Prerequisite: MKT 6503. This course covers both the impact of new information technologies on traditional marketing and marketing in industries undergoing high levels of technological change. Subject areas such as e-commerce, database marketing, business-to-business marketing, and customer contact management are examined and illustrated in industry settings that emphasize innovation through the development of new technologies. These industries, but are not limited to, communications, information processing, education, entertainment, and health care.
- MKT 6535 Advanced Services Marketing Management** 3 cr.  
 A strategy-oriented seminar dealing with problems of marketing-service businesses (e.g., hotels, restaurants, banks, medical offices, etc.). This course prepares students to properly manage the marketing effort for service businesses using case analyses, exercises, and projects which deal with critical aspects of service, design, and

delivery. Students may not receive credit for both MKT 4535 and MKT 6535.

**MKT 6536 Strategic Marketing Decisions for Health Care Management** 3 cr.

Prerequisite: MBA foundation. An advanced seminar in Strategic Marketing methods in a diverse health care context. Includes assessment of market opportunities, development and implementation of marketing programs, promotion, market research, and marketing information systems. Special emphasis on marketing in a managed care environment.

**MKT 6546 Advanced Seminar in International Marketing** 3 cr.

Prerequisite: MKT 6503. An in-depth review of trends and developments in the global marketing environment. Topics covered include import-export, joint ventures as well as international marketing systems and multinational marketing strategies.

**MKT 6555 Marketing Research Methods** 3 cr.

Prerequisite: QMBE 2786 and MKT 6503. Advanced marketing research methods including experimentation, questionnaire construction, and sampling, used to investigate marketing problems, and design of strategies. Other applications include market position assessment, image studies, product design, advertising effectiveness, and pricing. Elementary and multivariate data analysis methodology will be applied.

**MKT 6575 Logistics** 3 cr.

Logistics is a value-added process that synchronizes demand and supply in an effort to provide competitive advantage. Emphasis is placed on the strategic importance of customer service/satisfaction within a supply chain management perspective. Specific topics include supply chain strategy, transportation, inventory analysis, warehousing, material handling, and international logistics.

**MKT 6590 Current Topics in Marketing** 3 cr.

Prerequisite: MKT 6503. An intensive study of selected current topics in marketing. Topics will vary based on contemporary needs as dictated by the discipline as well as the interests of the students and the instructor.

**MKT 6591 Independent Study in Marketing** 3 cr.

Prerequisite: consent of department. Readings, weekly reports, conferences, and a research paper.

**MKT 6594 Internship in Marketing** 3 cr.

Prerequisite: 15 hours of MBA courses with at least a 3.0 GPA and consent of the department. The student will work a minimum of 150 hours during the semester at the site of a participating organization that directs the intern in a specific Marketing project. Students must in addition engage in extensive outside research in the subject area related to their internship and submit a substantial report on this research reflecting a graduate level of learning. Enrollment is limited. May not be repeated for credit.

**MKT 6595 Special Topics in Marketing** 1 cr. min./4 cr. max.

An intensive study of selected special topics in Marketing. Topics will vary based on contemporary needs as dictated by the discipline as well as the interests of the students and the instructor. Section number will correspond with credit to be earned.

## **Master of Urban and Region Planning**

**MURP 4005/G Introduction to Neighborhood Planning** 3 cr.

This class introduces students to the underlying processes of neighborhood-based planning and explores the role of the neighborhoods in the urban environment. Through class lectures, discussion of assigned readings, and presentations of planning initiatives undertaken in a variety of New Orleans' neighborhoods, students

will explore the components of neighborhood development, change, and planning.

**MURP 4010/G Introduction to Historic Preservation** 3 cr.

The introduction to Historic Preservation provides a broad overview of the historical, architectural, political, social economic, administrative and legal aspects of historic preservation.

**MURP 4020/G Historic Houses and Districts** 3 cr.

This course explores the variety of resources available for the restoration or renovation of historic properties and the most effective for employing these resources. Beginning with the assessment of a property's current condition, students learn to recognize clues to a building's past, to understand how a plan for renovation or restoration is developed, and to evaluate a successful finished project. The class includes guest speakers and site visits to projects in varying stages of re-development.

**MURP 4030/G Social Policy Planning** 3 cr.

Fall semester. Prerequisite: consent of school. The course will investigate operational approaches to social planning. Problem conceptualization will be emphasized and methods to express and satisfy human needs in planning discussed.

**MURP 4050/G Urban Land Use Planning and Plan Making** 3 cr.

Prerequisite: Concurrent enrollment in MURP 4051. This course provides students with an understanding of land use planning principles, methods and formats. In addition, students will gain the skills needed to create an effective and appropriate land use plan for a small city. Topics include: how to assess the strengths and weaknesses of various land use plan-making methods and plan formats; how to describe existing and emerging community conditions; how to formulate goals; how to design a future urban regional form that meets community objectives; and how to formulate a plan in a professional manner.

**MURP 4051/G Urban Land Use Planning and Plan Making Laboratory** 1 cr.

Prerequisite: Concurrent enrollment in MURP 4050. One hour of laboratory each week to accompany MURP 4050. Practical application of the principles, processes and methods of land use planning. Students will complete a land use plan for a hypothetical small city by the end of the course.

**MURP 4061/G Introductory Transportation Planning** 3 cr.

This course provides an introduction to the practice of urban transportation planning. The course concentrates primarily on providing a general over-view of the transportation planning process. Emphasis is placed on specific elements of that process and specific components of the urban transportation system.

**MURP 4062/G Applied Techniques for Transportation Planners** 3 cr.

This course is an overview of the tools used by transportation planners for decision making. The course covers the use of transportation data and analysis, transportation demand modeling, land use and travel behavior, transit system planning, bicycle and pedestrian planning and safety, transportation finance, evacuation planning, the use of information technology in transportation planning, and project implementation and evaluation.

**MURP 4063/G Land Use and Transportation Planning** 3 cr.

This course examines the relationship between transportation and land use. It covers the planning and policy techniques used to encourage sustainable and balanced multimodal transportation systems in the U.S. and around the world. The specific topics covered in this course include: trends in travel behavior, smart growth and sustainable development, public transportation, walk-

- ing, cycling, automobile dependence, transit-oriented development, real estate development, land use planning, and public policy.
- MURP 4070/G Development Impact Assessment** 3 cr.  
Prerequisite: MURP 4600 or consent of department. This course reviews the major techniques used in evaluating the socioeconomic and fiscal impacts of land development projects on communities. Case studies will be used for illustration.
- MURP 4071/G Historic Preservation Law** 3 cr.  
This course examines the evolution of Historic preservation law in the United States. Emphasis is placed on policies, court decisions and laws that impact the cultural and historic resources of Louisiana and particularly the City of New Orleans. This course analyzes the legal techniques and strategies that developers and preservationists have used to achieve their objectives. Enrollment does not require prior knowledge of the law.
- MURP 4081/G Information Technology for the Planning Profession** 3 cr.  
This course will provide an overview of computer-based technology widely used by planning professionals in demographic and land use analysis, environmental planning and development impact analysis. Students will be introduced to the appropriate application of information technology tools in the planning profession and will gain applied planning experience using current spatial software.
- MURP 4085/G Visual Technology and Digital City Planning** 3 cr.  
This class will introduce students to the various ways that local governments and cities use information technologies to address such critical issues as improving service delivery, policy making and planning. Utilizing the controlled "hands-on" environment of a hypothetical city, students will explore the technical operations employing information technologies to build and use information systems effectively in local government. Students who do not have any previous experience with GIS should complete an ARC GIS tutorial by the end of the 3rd week of class. GEOG 4805 is recommended but not required.
- MURP 4140/G Environmental Planning** 3 cr.  
Spring semester. This course focuses on the impact of public and private planning, policies, and programs on the natural and man-made environment of our urban regions. The subject matter includes environmental law, environmental impact statements, environmental politics, land use policy, air and water resources, energy policy, and solid wastes.
- MURP 4145/G Coastal Zone Planning and Administration** 3 cr.  
Coastal zones are valuable natural resource areas that are fragile, in great demand, and in danger of system collapse. This course develops the concepts of coastal resources, examines the many strategies for resource management and administration, and analyzes guidelines and standards for planning activities in the coastal zone.
- MURP 4160/G Development of Environmental Management** 3 cr.  
Seminar on techniques for managing urban development to further objectives specified in comprehensive development plans and to conserve environmental resources. Regulatory, public investment, incentive, and other policy instruments used in land use and environmental management are covered.
- MURP 4200/G American City Planning** 3 cr.  
Fall semester. Prerequisite: consent of school. This course will deal with the evolution of urban and regional planning in the United States with particular focus on the last century. Emphasis will be placed on specific issues, programs, projects, and personalities instrumental in shaping the form of the American landscape and cityscape and in developing urban planning as a profession.
- MURP 4400/G Introduction to Preservation Planning** 3 cr.  
Prerequisite: consent of school. This course will provide an introduction to the urban planning techniques used for preserving historic buildings, neighborhoods, and districts within American cities.
- MURP 4500/G Energy Planning for Cities and Regions** 3 cr.  
Prerequisite: consent of school. An introduction to national and Louisiana energy demands, resources, impacts, technologies, and policies especially as related to plan formulation in cities and regions. Particular emphasis is given to the energy relationship between New Orleans and the Louisiana coastal ecosystem.
- MURP 4600/G History and Practice of Planning** 3 cr.  
(MURP 4600 and GEOG 4600 are cross-listed) This course introduces students to the history and practice of urban planning in the United States from its origins in the colonial era through the evolution of planning thought and programs in the 20th century. It also provides students with an understanding of how planning has evolved through recent history, and is being practiced currently. Emphasis will be placed on the components of comprehensive planning, the implementation of modern city plans, and the discussion of current planning issues.
- MURP 4660/G Negotiation and Mediation for Planners** 3 cr.  
Prerequisite: Consent of the School of Urban Planning & Regional Studies. This course uses theory and gaming materials to build negotiation and mediation skills. The particular lessons covered include: the importance of assessing one's Best Alternative to a Negotiated Agreement (BATNA); the preconditions for collaborative problem solving; the application of utility theory to negotiation analysis; the significance of coalition building; the value of packaging options that trade across issues; criteria for evaluating negotiation outcomes; strategies for dealing with uncertainty and risk; the role of the media in public decision making; and the responsibility of facilitators, mediators, and dispute resolves. These lessons ought to be directly transferable to a student's current or future planning practice.
- MURP 4700/G Urban Aesthetics and Design Analysis** 3 cr.  
This introductory design course deals with the impact, inventory, observation, analysis, and critique of the complex urban environment from a designer's viewpoint. Equal emphasis shall be given to the various component parts of the physical surroundings and their cumulative interactions. Urban and inventory, observation, analysis, and critique of the complex urban environment from a designer's viewpoint. Equal emphasis shall be given to the various component parts of the physical surroundings and their cumulative interactions. Urban and suburban structures, plazas, recreation areas, malls, streetscapes, landscapes, the neighborhood, and the private residence shall be considered.
- MURP 4710/G Urbanism and Urban Design** 3 cr.  
Offered each semester. Prerequisite: consent of school. This course will deal with the history of urban design emerging methodologies analytical frameworks instruments and strategies the decision-making processes in urban design and the roles of urban designers.
- MURP 4711/G Principles of Landscaping** 3 cr.  
This course will focus on major issues of present day landscaping architecture. Landscape and site design, plant material identification and usage, installation practices will be discussed. Special topics will include large tree relocation, landscaping as a profession, graphics and model building techniques, the workings of design process, and designer/client relations.

- MURP 4750/G Design and Management of Urban Parks** 3 cr.  
This course will explore the essential elements of planning, design and management of urban parks and public spaces. A major focus of this course will be on how parks and open spaces contribute to the quality of life in communities and how they can help to promote revitalization efforts. Research methods to determine community needs, financing mechanisms, management strategies and evaluation techniques will be discussed along with design examples from a variety of U.S. and Canadian parks.
- MURP 4800/G Studies in Special Urban Problems** 3 cr.  
Prerequisite: consent of school. This course is a study of urbanization and population the city as a social and cultural environment and social problems of cities.
- MURP 4820/G Tourism for Urban and Regional Planners** 3 cr.  
An exploration of the international travel and tourism industry, focusing on the post-1950 period. The course will cover the rapid growth of tourism and its economic, social, cultural, and environmental impacts on countries, regions, and cities, with a particular emphasis on the role planners and policymakers play in promoting and regulating the industry.
- MURP 4900 Independent Study** 3 cr.  
Prerequisite: consent of school. Independent research under the direction of a designated member of the faculty. May be repeated once. Maximum of six credit hours allowed. Not for graduate credit.
- MURP 6010 Planning for Neighborhoods and Smaller Communities** 3 cr.  
Prerequisite: MURP 4600 or consent of school. This course examines the forces that have shaped America's neighborhoods and smaller communities, the unique problems that face them, and planning strategies available for their resolution.
- MURP 6020 Analytic Methods for Planners** 3 cr.  
Prerequisite: URBN 6005 or instructor's permission. An introduction to the application of quantitative analytical method used by professional planners and policy makers in urban and regional contexts. Topics include: population estimation and forecasting, economic forecasting, locational analysis, forecasting for transportation, housing, shopping, and recreational facilities, as well as project evaluation and monitoring. An emphasis will be placed on actual problem solving rather than an understanding of the pure mathematical basis of the techniques.
- MURP 6051 Housing and Community Development** 3 cr.  
Prerequisite: consent of school. This course is designed to give the student an introduction to the complex areas of housing and community development. Emphasis will be placed on examination of the federal role and the local response in implementing programs.
- MURP 6061 Transportation Planning** 3 cr.  
Prerequisites: MURP 6020 intermediate statistics and calculus, or consent of school. A seminar on the quantitative aspects of transportation planning. Included in the course material will be: transportation network concepts, minimum path through network algorithms, optimal network problems, trip distribution (gravity) models, and urban land use models.
- MURP 6071 Zoning and Land Use Regulation** 3 cr.  
Prerequisite: consent of school. The course is an introduction to the legal environment in which planners and urban professionals must operate. Using the case method and analytic examples, the seminar will concentrate on acquainting the beginning urban professional with such concepts as zoning, eminent domain, subdivision regulation, planned-unit development (PUD), and the law of nuisance.
- MURP 6121 Methods of Urban and Regional Analysis II** 3 cr.  
Prerequisite: MURP 6020 or consent of school. A seminar on application of advanced quantitative analytic methods in regional and urban planning. The following topics will be presented: industrial complex analysis, regional and interregional linear programming, gravity models, game theory, concepts of regional development and regional conflict and cooperation analysis.
- MURP 6130 Urban Development: A Social Perspective** 3 cr.  
Prerequisite: MURP 4030 or consent of college. The emphasis of this course is on current urban problems in urban development and the planning methods and strategies used to meet the needs of diverse socio-economic groups. A single problem focus will be developed and possible solutions developed.
- MURP 6140 Citizen Participation** 3 cr.  
Prerequisite: MURP 4030 or consent of school. This seminar will explore the operational development of citizen participation and its inclusion as a vital element in the urban planning process. Emphasis will be placed on decentralization and participation in the design and delivery of urban public services at various levels of responsibility. Specific programs such as Community Development and neighborhood service units will be covered. Policy implications for local officials and urban planners will be discussed in an operational context.
- MURP 6175 Case Studies in the Land Development Process** 3 cr.  
Prerequisite: MURP 6170. This course will cover, by actual student practice, project packaging in the land development process. In addition to financial considerations (cash flow, leases, rents, subordination, and funding) this course will confront community relations and development, regulatory matters, market feasibility studies, politics, public bids, land exchanges, and other topics by analyzing carefully constructed cases of land development modeled after real-world developments.
- MURP 6180 Site Planning** 3 cr.  
Offered each semester. Prerequisite: MURP 4710 or equivalent design course or consent of college. This will examine the fundamentals of site planning and analysis including environmental considerations as related to the design process, and general factors affecting building location and orientation. It will explore the specific site requirements of different types of land uses including density, visual elements, buffers and parking requirements. Students will complete small and large scale projects involving the integration of numerous site elements for workable designs.
- MURP 6401 Urban Public Works Planning** 3 cr.  
Prerequisite: consent of school. An introduction to the public works functions in the urban environment. The course will examine the organization and operation of urban public works activities. Case studies of actual public works problems will be used to supplement lecture material.
- MURP 6450 Local Economic Development Policy and Planning** 3 cr.  
Prerequisite: None. This course provides students with an understanding of the theories, processes, and tools of local economic development. In addition, the course presents the realities of local economic development as currently practiced in the U.S. cities. The course emphasizes economic theory with a sensitivity to the political environment in cities and regions. Theories of development and economics as well as analytical tools used by local professionals will be shown as critical elements of sound local economic development planning.
- MURP 6500 Urban Planning Practice in Developing Nations** 3 cr.  
Prerequisites: MURP 4600 or consent of department. This course presents a study of urban and regional planning practice in

developing countries. Urban development issues and planning paradigms will be discussed. Selected Less Developed Countries (LDC's) will be examined in detail.

**MURP 6520 Comparative Planning and Urban**

**Development: the Case of Industrialized Nations** 3 cr.  
Prerequisite: MURP 4600 or consent of department. This seminar will explore the processes and strategies adopted by industrialized nations in planning for the development of their urban areas. Policy formulation and program implementation will be stressed, particularly in the areas of housing, central city revitalization, growth controls, and labor mobility.

**MURP 6600 Planning Theory** 3 cr.  
Prerequisite: Students must have graduate standing and completed MURP 4600 or have the consent of instructor or graduate coordinator. This seminar will explore in-depth various theories of urban and regional planning.

**MURP 6601 Seminar: Urban Planning Models** 3 cr.  
Spring semester. Prerequisite: consent of school. This seminar will be an in-depth study of advanced concepts and techniques of urban planning.

**MURP 6605 Seminar in Land Use Analysis** 3 cr.  
(GEOG 6605 and MURP 6605 are cross-listed) Prerequisite: consent of department. Intensive research into selected rural and/or urban land-use problems in their environmental and historical contexts. Course may be repeated once for credit.

**MURP 6650 Recreational Planning** 3 cr.  
Prerequisite: consent of school. This course deals with the impact of urbanization on the field of recreation. Recreation planning will be discussed in relationship to the overall comprehensive planning fabric specifically as it relates to the formulation of its major components, i.e., goals, needs, methodologies, surveying techniques, administration, financing, and site analysis.

**MURP 6720 Practicum in Urban and Regional Planning** 3 cr.  
The course will focus on the applied aspects of the urban and regional planning profession. Project(s) will be identified and students will work as a team to complete the work. The goal is to develop a professional group report.

**MURP 6900 Independent Study** 3 cr.  
Offered each semester. Independent research in the graduate student's area of specialization under the direction of a designated member of the graduate faculty. May be repeated for credit.

**MURP 7000 Thesis Research** 1 cr. min./9 cr. max.  
Offered each semester. To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.

**MURP 7040 Examination or Thesis Only No credit** 0 cr.  
Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

## Music

Not more than eight semester hours from Music 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1950 may be offered for graduation.

**MUS 1000 Music Appreciation** 3 cr.  
Offered each semester. An appreciation and analysis from the viewpoint of the listener of representative works in Western art tradition, covering for example, selected masterworks of Bach, Handel,

Mozart, Beethoven, Brahms, Tchaikovsky, Bartok, and Stravinsky. No previous knowledge of or about music is required.

**MUS 1003 Early Jazz** 3 cr.  
Offered each semester. An introduction to the principal movements, schools, and performers of American Jazz from the New Orleans Era through World War II. No previous knowledge of or about music is required

**MUS 1004 Contemporary Jazz** 3 cr.  
Offered each semester. An introduction to the principal innovators styles and schools of jazz from World War II to the present. Music 1003 and 1004 may be taken separately or in reverse order. No previous knowledge of or about music is required.

**MUS 1005 Introduction to Music Literature** 3 cr.  
An introduction to the classics of Western music with special regard to the manner in which traditional, popular, and non-Western musics have influenced the European and American traditions. This course is designed to expose the music major to a wide variety of musical styles, including the masterworks of European Classical Music, the uniquely American forms of ragtime, blues, jazz and musical theater, as well as rock and contemporary world music. Required of all music majors in the College of Liberal Arts; non-majors admitted with the permission of the Department. No prerequisites.

**MUS 1006 Introduction to Music Technology** 3 cr.

**MUS 1100 Fundamentals of Music** 3 cr.  
Offered each semester. An introduction to the rudiments of music theory including structure, notation, and written and aural skills.

**MUS 1101 Theoretical Foundations I** 6 cr.  
Comprised of three components - theory, musicianship and piano. A foundations course in the fundamentals of music grammar, melodic writing and two-voice 16th century contrapuntal techniques, aural and keyboard skills, sight-singing and rhythm training.

**MUS 1102 Theoretical Foundations II** 6 cr.  
Prerequisite: Music 1101 or equivalent. Comprised of three components - theory, musicianship and piano. Principles of tonal music as exemplified by selected Baroque composers. Emphasis on melody, rhythm, texture, figured bass, functional harmony, counterpoint, dramatic techniques, and formal structures of the Baroque era, aural and keyboard skills, sight-singing and rhythm training.

**MUS 1200 Applied Lessons for Nonmajors** 1 cr.  
Prerequisite: MUS 1100 or equivalent musical literacy displayed at required audition. Designed to provide private lesson instruction (30 minutes per week) for nonmajors. Four hours of personal practice per week based upon assignments from lessons is expected. Also available to music majors who want instruction in instruments other than their primary instrument. May be repeated four times for credit.

**MUS 1401 Applied Keyboard** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.

**MUS 1402 Applied Keyboard** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.

**MUS 1405 Piano Class** 2 cr.  
Offered each semester. Class instruction in piano for music majors not majoring in piano. Two one-hour classes and six hours practice

- per week. These courses are intended for music majors with little or no previous piano training.
- MUS 1406 Piano Class** 2 cr.  
Offered each semester. Class instruction in piano for music majors not majoring in piano. Two one-hour classes and six hours practice per week. These courses are intended for music majors with little or no previous piano training.
- MUS 1407 Piano Class** 2 cr.  
Offered each semester. Class instruction in piano for music majors not majoring in piano. Two one-hour classes and six hours practice per week. These courses are intended for music majors with little or no previous piano training.
- MUS 1408 Piano Class** 2 cr.  
Offered each semester. Class instruction in piano for music majors not majoring in piano. Two one-hour classes and six hours practice per week. These courses are intended for music majors with little or no previous piano training.
- MUS 1431 Applied Keyboard-Principal** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 1432 Applied Keyboard-Principal** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 1501 Applied Voice** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.
- MUS 1502 Applied Voice** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.
- MUS 1505 Voice Class** 2 cr.  
Fundamentals of voice production. Class instruction in correct breathing, tone production, and diction. These courses are intended for music majors with little or no previous voice training.
- MUS 1506 Voice Class** 2 cr.  
Fundamentals of voice production. Class instruction in correct breathing, tone production, and diction. These courses are intended for music majors with little or no previous voice training.
- MUS 1507 Voice Class** 2 cr.  
Fundamentals of voice production. Class instruction in correct breathing, tone production, and diction. These courses are intended for music majors with little or no previous voice training.
- MUS 1508 Voice Class** 2 cr.  
Fundamentals of voice production. Class instruction in correct breathing, tone production, and diction. These courses are intended for music majors with little or no previous voice training.
- MUS 1511 Voice Class for Non-Music Majors** 2 cr.  
Introduction to the fundamental principles of singing. Group instruction in voice production. Open to all University students.
- MUS 1512 Voice Class for Non-Music Majors** 2 cr.  
Prerequisites: MUS 1511 or equivalent and consent of department. Introduction to the fundamental principles of singing. Group instruction in voice production. Open to all University students. MUS 1512 is a continuation of MUS 1511.
- MUS 1531 Applied Voice-Principal** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 1532 Applied Voice-Principal** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 1601 Applied Strings** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.
- MUS 1602 Applied Strings** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.
- MUS 1611 Classical Guitar for Non-Music Majors** 2 cr.  
Group instruction in the fundamentals of classical guitar. Open to all University students. Students must have a classical guitar.
- MUS 1612 Classical Guitar for Non-Music Majors** 2 cr.  
Prerequisites: MUS 1611 or equivalent and consent of department. Group instruction in the fundamentals of classical guitar. Open to all University students. Students must have a classical guitar. MUS 1612 is a continuation of MUS 1611.
- MUS 1631 Applied Strings-Principal** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 1632 Applied Strings-Principal** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 1701 Applied Woodwind** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.
- MUS 1702 Applied Woodwind** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.
- MUS 1705 String Methods and Techniques** 2 cr.  
A study of the instruments of the string family with an emphasis on their teaching methods and techniques. Designed for the instrumental education major.
- MUS 1706 Woodwind Methods and Techniques** 2 cr.  
A study of the instruments of the woodwind family with an emphasis on their teaching methods and techniques. Designed for the instrumental music major.
- MUS 1707 Brass Methods and Techniques** 2 cr.  
A study of the instruments of the brass family with an emphasis on their teaching methods and techniques. Designed for the instrumental music major.
- MUS 1708 Percussion Methods and Techniques** 2 cr.  
A study of the instruments of the percussion family with an emphasis on their teaching methods and techniques. Designed for the instrumental music major.
- MUS 1711 Applied Brass** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week)

- with expectation of ten hours per hours per week of independent practice time.
- MUS 1712 Applied Brass** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.
- MUS 1721 Applied Percussion** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.
- MUS 1722 Applied Percussion** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.
- MUS 1731 Applied Woodwind-Principal** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 1732 Applied Woodwind-Principal** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 1741 Applied Brass-Principal** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 1742 Applied Brass-Principal** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 1743 Applied Brass-Principal** 2 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 1781 Applied Percussion-Principal** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 1782 Applied Percussion-Principal** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 1900 Student Recital No credit** 0 cr.  
Offered each semester. Prerequisite: audition with department. The study and performance of large ensemble jazz materials with emphasis on contemporary idioms. May be repeated for credit to a total of eight semester hours.
- MUS 1901 Chamber Ensemble** 1 cr.  
Prerequisite: consent of department. Intensive study of chamber music and other works for small ensembles. May be repeated for credit to a total of eight semester hours.
- MUS 1902 University Jazz Band** 1 cr.  
Offered each semester. Prerequisite: audition with department. The study and performance of large ensemble jazz materials with emphasis on contemporary idioms. May be repeated for credit to a total of eight semester hours.
- MUS 1903 University Band** 1 cr.  
Offered each semester and open to all University students with consent of department. Intensive study of traditional and modern repertoire for concert and marching band. May be repeated for credit to a total of eight semester hours. \*May be used to fulfill the General Degree Requirements for arts.
- MUS 1904 Privateer Chorus** 1 cr.  
Offered each semester and open to all University students with consent of department. Study of choral music of all periods including preparation for public performance. May be repeated for credit to a total of eight semester hours.
- MUS 1905 University Chorale** 1 cr.  
Offered each semester. Open to all University students by audition. Study and performance of choral literature. Campus and tour performances. Three hours of class per week. May be repeated for credit to a total of eight semester hours.
- MUS 1906 Chamber Singers** 1 cr.  
Offered each semester. Open to all University students by audition. A small ensemble of mixed voices for the study and performance of choral music dating from 1500 to the present. May be repeated to a total of eight semester hours.
- MUS 1907 Piano Accompaniment** 1 cr.  
Prerequisite: consent of department. Guided experience in sight-reading, preparation and performance of accompaniments for vocal and instrumental performers. May be repeated for credit to a total of eight semester hours.
- MUS 1908 Wind Ensemble** 1 cr.  
Offered each semester. Prerequisite: audition with department. Study and performance of advanced repertoire for wind ensemble. May be repeated for credit to a total of eight semester hours.
- MUS 1910 University Orchestra** 1 cr.  
Offered each semester. Prerequisite: audition. Study and performance of orchestral repertoire. May be repeated for credit to a total of eight semester hours.
- MUS 1950 Opera Theater** 1 cr.  
Open to voice students or by consent of department. A workshop course especially designed for the coordination of music and acting with particular emphasis on training the singing actor. Coaching in operatic scenes and training in the basic principles of dramatic aspects of opera. Three hours of laboratory per week. May be repeated for credit to a total of eight semester hours.
- MUS 2000 Field Research in the Arts** 1 cr. min./3 cr. max.  
(FTCA 2000, FA 2000, and MUS 2000 are cross-listed) Prerequisite: consent of department. Special research project in the arts involving field experience and study outside the city of New Orleans. Advance preparation for the project will include conference with or lecture by the faculty and readings in the specific areas to be studied. The study trip will consist of attendance at a minimum of four theatrical or musical performances or a minimum of eight hours spent in visits to exhibits or museums for each hour of credit. A follow-up paper on a research topic inspired by the trip will be required. May be repeated for up to six hours of credit. Credit will be given for only FTCA 2000, FA 2000, or MUS 2000 for the same trip.
- MUS 2001 Special Topics in Music** 1 cr. min./3 cr. max.  
Prerequisite: consent of department. Specific areas of interest will be studied under the direction of a faculty member. Topics may vary from semester to semester. This course may be repeated but total credit may not exceed six semester hours. Section number will correspond with credit to be earned.
- MUS 2005 Introduction To Music Technology** 3 cr.  
Prerequisite: MUS 1102 or equivalent. This course will provide an introduction to and hands-on use of the hardware and software contained in the Department of Music computer lab. Students will be trained in the use of the Finale music notation program to give them an effective method of notating their projects and assignments and a means to create virtual performances of their musical

- compositions through MIDI synchronization. Additionally, students will gain mastery of various audio editing programs in order to be able to convert their own finished projects to CD or MP3 format.
- MUS 2101 Music Theory III** 3 cr.  
Prerequisite: MUS 1102 or equivalent. Principles of tonal music as exemplified by selected Classic and Romantic composers. Emphasis on melody, rhythm, texture, modulation, functional and nonfunctional harmony, dramatic techniques, and formal structures of the Classic and Romantic eras.
- MUS 2102 Music Theory IV** 3 cr.  
Prerequisite: MUS 2101 or equivalent. Principles of tonal and atonal music as exemplified by selected 20th century composers. Emphasis on melody, rhythm, texture, harmony, counterpoint, color, dramatic techniques, and form structures of the 20th century.
- MUS 2103 Advanced Musicianship** 1 cr.  
Offered each semester. Continuation of MUS 1103 and 1104 coordinate with MUS 2101 and 2102. Two hours of class per week.
- MUS 2104 Advanced Musicianship** 1 cr.  
Offered each semester. Continuation of MUS 1103 and 1104 coordinate with MUS 2101 and 2102. Two hours of class per week.
- MUS 2105 Techniques of Orchestration** 2 cr.  
Prerequisite: MUS 1102 or equivalent. A study of writing for orchestral instruments singly, in choirs, and in full orchestral instrumentation. Particular emphasis will be placed on arranging selected piano compositions for various combinations of orchestral instruments.
- MUS 2106 Class Composition** 2 cr.  
Prerequisite: MUS 1102 or equivalent. A beginning study of the elements of composition. Particular emphasis will be placed on solving common technical problems and in preparing manuscripts for performance.
- MUS 2107 Jazz Arranging Class** 2 cr.  
Prerequisites: MUS 1003 1102 and 1406 or consent of department. A beginning study of the fundamentals of music notation instrumentation and theory as applied to the jazz idiom. To be taken concurrently with Music 2101.
- MUS 2108 Jazz Arranging Class** 2 cr.  
Prerequisite: MUS 2107 or consent of department. Continuation of MUS 2107 with increased emphasis on the completion of brief scoring projects. To be taken concurrently with MUS 2102.
- MUS 2109 Jazz Harmony and Theory** 3 cr.  
Prerequisites: MUS 1003 1102 and 1406 or consent of department. Introduction to the fundamentals of jazz harmony with emphasis placed on aural perception and keyboard interpretations of common chord progressions as they occur in the song-forms (A-B-A) and the blues.
- MUS 2110 Jazz Harmony and Theory** 3 cr.  
Prerequisite: MUS 2109 or consent of department. A continuation of MUS 2109 with increased emphasis placed on the study of harmonic progressions as found in the popular song forms and the blues and an introduction to the principals of chord substitution and reharmonization.
- MUS 2201 History of Music** 3 cr.  
Fall semester. Prerequisites: MUS 1102 and 1104. An historical survey of the art of music in the West from its tentative beginnings in Greek and Jewish music through the compositions of Beethoven.
- MUS 2202 History of Music** 3 cr.  
Spring semester. Prerequisites: MUS 1102 1104 and 2201 or consent of department. A continuation of MUS 2201 from the music of Schubert and Weber through the present.
- MUS 2205 Jazz Profiles** 3 cr.  
Prerequisite: MUS 1003 or consent of department. An historical study of the major jazz figures from the New Orleans period until the present day emphasizing the contributions of the principal innovators of each era. Intended for students enrolled in the Jazz Studies Performance and Arranging Emphases.
- MUS 2302 French Diction in Singing** 2 cr.  
Prerequisite: consent of department. A study of phonetic sounds of the French language to promote the ability to sing in French. No attempt made to develop knowledge of grammar or vocabulary.
- MUS 2303 Italian Diction in Singing** 2 cr.  
Prerequisite: consent of department. A study of phonetic sounds of the Italian language to promote the ability to sing in Italian. No attempt made to develop knowledge of grammar or vocabulary.
- MUS 2304 German Diction in Singing** 2 cr.  
Prerequisite: consent of department. A study of phonetic sounds of the German language to promote the ability to sing in German. No attempt made to develop knowledge of grammar or vocabulary. \*May be used to fulfill the General Degree Requirements for arts.
- MUS 2401 Applied Keyboard** 2 cr.  
Prerequisite: MUS 1402 or equivalent proficiency and enrollment in Music Department degree program. Private studio instruction (one hour per week) with expectation of ten hours per week of independent practice time.
- MUS 2402 Applied Keyboard** 2 cr.  
Prerequisite: MUS 1402 or equivalent proficiency and enrollment in Music Department degree program. Private studio instruction (one hour per week) with expectation of ten hours per week of independent practice time.
- MUS 2405 Advanced Piano Class** 3 cr.  
Prerequisite: MUS 1408 or equivalent. Small group instruction for piano secondaries who need additional training. Course will emphasize functional skills at the keyboard. Two hours of class and nine hours of practice per week.
- MUS 2406 Advanced Piano Class** 3 cr.  
Prerequisite: MUS 1408 or equivalent. Small group instruction for piano secondaries who need additional training. Course will emphasize functional skills at the keyboard. Two hours of class and nine hours of practice per week.
- MUS 2431 Applied Keyboard-Principal** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 2432 Applied Keyboard-Principal** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 2501 Applied Voice** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.
- MUS 2502 Applied Voice** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.
- MUS 2505 Advanced Voice Class** 3 cr.  
Prerequisite: MUS 1508 or equivalent. Continuation of Voice Class 1508. Small group instruction for voice secondaries. Further studies in vocal pedagogy and technique.

- MUS 2506 Advanced Voice Class** 3 cr.  
Prerequisite: MUS 1508 or equivalent. Continuation of Voice Class 1508. Small group instruction for voice secondaries. Further studies in vocal pedagogy and technique.
- MUS 2507 Advanced Voice Class** 3 cr.  
Prerequisite: MUS 1508 or equivalent. Continuation of Voice Class 1508. Small group instruction for voice secondaries. Further studies in vocal pedagogy and technique.
- MUS 2531 Applied Voice-Principal** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 2532 Applied Voice-Principal** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 2601 Applied Strings** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.
- MUS 2602 Applied Strings** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.
- MUS 2605 Jazz Keyboard Class** 1 cr.  
Prerequisite: MUS 1406 or consent of department. Small group instruction for students in the Jazz Studies Arranging Emphasis. Introduction to the fundamentals of chord voicings and harmonic progressions in the jazz idiom.
- MUS 2606 Jazz Keyboard Class** 1 cr.  
Prerequisite: MUS 2605 or consent of department. Continuation of MUS 2605 emphasizing the fundamentals of chord voicings and harmonic progressions in the jazz idiom.
- MUS 2631 Applied Strings-Principal** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 2632 Applied Strings-Principal** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 2701 Applied Woodwind** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.
- MUS 2702 Applied Woodwind** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.
- MUS 2711 Applied Brass** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.
- MUS 2712 Applied Brass** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.
- MUS 2721 Applied Percussion** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.
- MUS 2722 Applied Percussion** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.
- MUS 2731 Applied Woodwind-Principal** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 2732 Applied Woodwind-Principal** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 2741 Applied Brass** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 2742 Applied Brass** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 2781 Applied Percussion** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 2782 Applied Percussion** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 2801 Applied Composition** 3 cr.  
Prerequisite: MUS 2106 or consent of department. A study of the techniques of musical composition. Designed for the student whose applied area is composition. Special emphasis will be placed on the development of the student's individual style.
- MUS 2802 Applied Composition** 3 cr.  
Prerequisite: MUS 2106 or consent of department. A study of the techniques of musical composition. Designed for the student whose applied area is composition. Special emphasis will be placed on the development of the student's individual style.
- MUS 2807 Intermediate Jazz Arranging** 3 cr.  
Prerequisite: MUS 2108 or consent of department. Continuation of MUS 2108 with increased emphasis on the completion of more extended arrangements. To be taken concurrently with MUS 4101. Private or small group instruction.
- MUS 2808 Intermediate Jazz Arranging** 3 cr.  
Prerequisite: MUS 2807 or consent of department. Continuation of MUS 2807 with increased emphasis on the completion of more extended arrangements. To be taken concurrently with MUS 4102.
- MUS 3001 Special Topics in Great Composers** 3 cr.
- MUS 3091 Special Topics in Great Composers** 3 cr.  
Prerequisite: MUS 1000 or equivalent. MUS 3091 provides students who have taken a general music course greater exposure to composers and compositions from a specific era of music history, or specific musical genre; the era or genre varies each semester. Special emphasis will be given to understanding the music in its historical context.
- MUS 3099 Senior Honors Thesis** 1 cr. min./6 cr. max.  
Prerequisite: consent of Music Department and the Honors Program. Directed research under a Music faculty member culminating in

- a written thesis. Course may be repeated up to three consecutive semesters for a total of six credits.
- MUS 3103 Marching Band Techniques** 2 cr.  
The purpose of this course is to give the music education student the necessary skills to effectively design, organize, teach, and evaluate marching band shows and parade marching.
- MUS 3104 Band Arranging** 2 cr.  
Prerequisite: Music 4102 or equivalent. A study of band instrumentation including both transcription from other media and original composition. Two hours of lecture
- MUS 3111 Conducting I** 2 cr.  
Prerequisite: MUS 2102 or consent of department. Basic mechanics of conducting and introduction to elements of vocal conducting technique. Beat patterns, conducting theory, hand position, group vocal techniques, and rehearsal strategies are the primary foci.
- MUS 3112 Conducting II** 2 cr.  
Prerequisite: MUS 3111 or consent of department. Development of the basic conducting technique learned in MUS 3111 and introduction to instrumental conducting. Clarity of gestures, score reading and study, instrumental transposition, and rehearsal psychology/philosophy will be given primary emphases"
- MUS 3150 Music Theory Project** 0 cr.  
Required of Music Theory and Composition majors who select theory as an emphasis. This project will either be written analysis of a major work or a study on an appropriate theoretical subject as approved by the theory and composition faculty. A faculty committee will grade the project on a pass-fail basis.
- MUS 3200 Applied Lessons for Nonmajors** 1 cr.  
Prerequisite: MUS 1200 or equivalent musical literacy displayed at required audition. Designed to provide private lesson instruction (30 minutes per week) for nonmajors. Four hours of personal practice per week based upon assignments from lessons is expected. Also available to music majors who want instruction in instruments other than their primary instrument. May be repeated four times for credit.
- MUS 3250 Music History Project** 0 cr.  
Required of music history majors. Written presentation, a research project subject to the approval of the music history faculty. A faculty committee will grade the project on a Pass-Fail basis.
- MUS 3382 Materials and Methods of Teaching Vocal Music in the Elementary Classroom** 3 cr.  
(EDCI 3382 and MUS 3382 are cross-listed) Prerequisites: EDCI 3100 and 3200 and consent of department. Consideration of methods and material in teaching vocal music in grades Pre-K through 6. Appropriate field experiences may be required.
- MUS 3383 Materials and Methods of Teaching Instrumental Music in Elementary and Secondary Schools** 3 cr.  
(EDCI 3383 and MUS 3383 are cross-listed) Prerequisites: EDCI 3100 and 3200 and consent of department. Consideration of methods and materials in teaching instrumental music. Appropriate field experiences may be required.
- MUS 3384 Materials and Methods of Teaching Vocal Music in Secondary Schools** 3 cr.  
(EDCI 3384 and MUS 3384 are cross-listed) Prerequisites: EDCI 3100 or 3200 and consent of department. Considerations of methods and materials in teaching vocal music in grades 7-12. Appropriate field experiences may be required.
- MUS 3401 Applied Keyboard** 2 cr.  
Prerequisite: MUS 3402 or equivalent proficiency and enrollment in Music Department degree program. Private studio instruction (one hour per week) with expectation of ten hours per week of independent practice time.
- MUS 3402 Applied Keyboard** 2 cr.  
Prerequisite: MUS 3402 or equivalent proficiency and enrollment in Music Department degree program. Private studio instruction (one hour per week) with expectation of ten hours per week of independent practice time.
- MUS 3431 Applied Keyboard-Principal** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 3432 Applied Keyboard-Principal** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 3451 Applied Keyboard** 3 cr.  
Private instruction (one hour per week).
- MUS 3452 Applied Keyboard** 3 cr.  
Private instruction (one hour per week).
- MUS 3453 Applied Keyboard** 2 cr.  
Private instruction (one hour per week).
- MUS 3501 Applied Voice** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.
- MUS 3502 Applied Voice** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.
- MUS 3531 Applied Voice-Principal** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 3532 Applied Voice-Principal** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).
- MUS 3551 Applied Voice** 3 cr.  
Private instruction (one hour per week).
- MUS 3552 Applied Voice** 3 cr.  
Private instruction (one hour per week).
- MUS 3553 Applied Voice** 2 cr.  
Private instruction (one hour per week).
- MUS 3595 Academic Year Abroad: Special Topics in Music** 3 cr.  
This course is only offered through UNO's Academic Year Abroad (AYA) in Innsbruck, Austria and can be repeated once for credit.
- MUS 3601 Applied Strings** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.
- MUS 3602 Applied Strings** 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.
- MUS 3605 Jazz Keyboard** 1 cr.  
Prerequisite: MUS 2606 or consent of department. Continuation of MUS 2606. This course explores the use of new chord progressions

and voicings in the jazz idiom with the objective of creating full-voiced arrangements for the keyboard.		
<b>MUS 3606 Jazz Keyboard</b>	1 cr.	
Prerequisite: MUS 3605 or consent of department. Continuation of MUS 3605. This course explores the use of new chord progressions and voicings in the jazz idiom with the objective of creating full-voiced arrangements for the keyboard.		
<b>MUS 3631 Applied Strings-Principal</b>	3 cr.	
Private instruction (one hour per week) or small group instruction (two hours per week).		
<b>MUS 3632 Applied Strings-Principal</b>	3 cr.	
Private instruction (one hour per week) or small group instruction (two hours per week).		
<b>MUS 3651 Applied Strings</b>	3 cr.	
Private instruction (one hour per week).		
<b>MUS 3652 Applied Strings</b>	3 cr.	
Private instruction (one hour per week).		
<b>MUS 3653 Applied Strings</b>	2 cr.	
Private instruction (one hour per week).		
<b>MUS 3701 Applied Woodwind</b>	2 cr.	
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.		
<b>MUS 3702 Applied Woodwind</b>	2 cr.	
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.		
<b>MUS 3705 Jazz Improvisation</b>	2 cr.	
Prerequisites: MUS 1102 and consent of department. A course in jazz improvisation designed to prepare the student with the theoretical background, aural skills, and improvisational techniques utilized in jazz performance.		
<b>MUS 3706 Jazz Improvisation</b>	2 cr.	
Prerequisites: MUS 1102 and consent of department. A course designed to help the student to continue developing the theoretical background, aural skills, and improvisational techniques utilized in jazz performance.		
<b>MUS 3711 Applied Brass</b>	2 cr.	
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.		
<b>MUS 3712 Applied Brass</b>	2 cr.	
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.		
<b>MUS 3721 Applied Percussion</b>	2 cr.	
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.		
<b>MUS 3722 Applied Percussion</b>	2 cr.	
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.		
<b>MUS 3731 Applied Woodwind-Principal</b>	3 cr.	
Private instruction (one hour per week) or small group instruction (two hours per week).		
<b>MUS 3732 Applied Woodwind-Principal</b>	3 cr.	
Private instruction (one hour per week) or small group instruction (two hours per week).		
<b>MUS 3741 Applied Brass-Principal</b>	3 cr.	
Private instruction (one hour per week) or small group instruction (two hours per week).		
<b>MUS 3742 Applied Brass-Principal</b>	3 cr.	
Private instruction (one hour per week) or small group instruction (two hours per week).		
<b>MUS 3751 Applied Woodwind</b>	3 cr.	
Private instruction (one hour per week).		
<b>MUS 3752 Applied Woodwind</b>	3 cr.	
Private instruction (one hour per week).		
<b>MUS 3753 Applied Woodwind</b>	2 cr.	
Private instruction (one hour per week).		
<b>MUS 3761 Applied Brass</b>	3 cr.	
Private instruction (one hour per week).		
<b>MUS 3762 Applied Brass</b>	3 cr.	
Private instruction (one hour per week).		
<b>MUS 3763 Applied Brass</b>	2 cr.	
Private instruction (one hour per week).		
<b>MUS 3771 Applied Percussion</b>	3 cr.	
Private instruction (one hour per week).		
<b>MUS 3772 Applied Percussion</b>	3 cr.	
Private instruction (one hour per week).		
<b>MUS 3773 Applied Percussion</b>	2 cr.	
Private instruction (one hour per week).		
<b>MUS 3781 Applied Percussion-Principal</b>	3 cr.	
Private instruction (one hour per week) or small group instruction (two hours per week).		
<b>MUS 3782 Applied Percussion-Principal</b>	3 cr.	
Private instruction (one hour per week) or small group instruction (two hours per week).		
<b>MUS 3801 Applied Composition</b>	3 cr.	
Prerequisite: MUS 2106 or consent of department. A study of the techniques of musical composition. Designed for the student whose applied area is composition. Special emphasis will be placed on the development of the student's individual style.		
<b>MUS 3802 Applied Composition</b>	3 cr.	
Prerequisite: MUS 2106 or consent of department. A study of the techniques of musical composition. Designed for the student whose applied area is composition. Special emphasis will be placed on the development of the student's individual style.		
<b>MUS 3911 Music Education Teaching Lab Ensemble</b>	0 cr.	
Prerequisites: MUS 3111 and 3112, or concurrent enrollment. Offered each semester. Laboratory practice of rehearsal teaching skills, secondary instruments, and vocal ensemble techniques. Required of all music education students. One hour of laboratory each week. Must be taken as preparation for MUS 3912. May be repeated for a total of two semesters. Pass-fail grading.		
<b>MUS 3912 Music Education Teaching Lab Ensemble</b>	1 cr.	
Prerequisite: two semesters of MUS 3911. Offered each semester. Laboratory practice of rehearsal teaching skills, secondary instruments, and vocal ensemble techniques. Required of all music educa-		

- tion students. One hour of laboratory each week. May be repeated for a total of two semesters. Pass-fail grading.
- MUS 3950 Half Recital In Performance** 0 cr.  
Presentation of a public recital of at least 25 minutes of actual playing duration. Content of the program must be similar to that normally included in professional recitals. A faculty committee will approve the program and grade the performance on a pass-fail basis.
- MUS 3960 Half Recital in Composition No credit** 0 cr.  
Required of music theory and composition majors who select composition as an emphasis. Presentation of a public recital of at least 25 minutes of actual musical duration. Content of the program will consist of compositions written during the student's compositional study. A faculty committee will approve the program and grade the recital on a Pass-Fail basis.
- MUS 3990 Full Recital** 0 cr.  
Presentation of a public recital of at least 50 minutes of actual playing duration. Content of program must be similar to that normally included in professional recitals and must include works in several styles. A faculty committee will approve the program and grade the performance on a Pass-Fail basis.
- MUS 4001/G Special Topics In Music** 1 cr. min./3 cr. max.  
Prerequisite: consent of department. Specific areas of interest will be studied under the direction of faculty member. Topics may vary from semester to semester. This course may be repeated, but total credit may not exceed six semester hours. Section number will correspond with credit to be earned.
- MUS 4101/G Contrapuntal Techniques** 2 cr.  
Prerequisite: MUS 2102 or equivalent. A study of the contrapuntal techniques from the 18th century until the present as exemplified by such composers as Bach, Mozart, Brahms, and Hindemith. Required of undergraduate students in the Composition-Theory emphasis. The course will be available as an elective for graduate students.
- MUS 4102/G Twentieth Century Techniques** 2 cr.  
Prerequisites: MUS 2102 or equivalent. A study of 20th century compositional techniques. The course is designed to provide the student with new and extended creative and expressive tools. Required of students in the Composition-Theory emphasis. The course will be available as an elective for graduate students.
- MUS 4103/G Digital Music Production** 3 cr.  
Prerequisite: CSCI 1000 and consent of faculty. Must be able to demonstrate knowledge of basic computer protocol. This course provides exposure to computer-and synthesizer-based music production commonly used in the music industry. Students will be trained in the effective use of music synthesizers, as well as a variety of software programs which utilize MIDI (Musical Instrument Digital Interface) and audio-recording capabilities. This course will be helpful in teaching students how to notate their projects and assignments via the computer, provide a means to create virtual performances of their music compositions, and introduce techniques of digital music editing and film synchronization.
- MUS 4105/G Advanced Orchestration** 3 cr.  
Prerequisites: MUS 2105 2106 or consent of department. A study of advanced orchestration techniques with an emphasis on late nineteenth and twentieth century practices.
- MUS 4106/G Audio Recording** 3 cr.  
This course is an examination of the art and science of audio recording and an introduction to advanced recording systems. The curriculum will cover signal flow as it applies to recording, microphone characteristics and applications, use of hardware and software-based audio effects, synchronization formats, and other topics related to tracking, mixing, and mastering.
- MUS 4109/G Advanced Jazz Harmony and Theory** 3 cr.  
Prerequisite: MUS 2110 or consent of department. An introduction to modal and polychordal harmonies with emphasis on analysis of extended form.
- MUS 4110/G Advanced Jazz Harmony and Theory** 3 cr.  
Prerequisite: MUS 4109 or consent of department. A continuation of MUS 4109 with increased emphasis on the creation of "original" jazz compositions employing modal/polychordal harmonies and extended forms.
- MUS 4202/G Studies in Renaissance Music** 3 cr.  
Prerequisites: MUS 2101 2102 2201 and 2202. A study of the development of western music from the Flemish School of Ockeghem and Obrecht through the Venetian School of Giovanni Gabrieli.
- MUS 4203/G Studies in Baroque Music** 3 cr.  
Prerequisites: MUS 2101 2102 2201 and 2202. A study of the development of western music from the Nuove Musiche through the death of J. S. Bach.
- MUS 4204 Studies in Music of the Classical Era** 3 cr.  
Prerequisites: MUS 2101, 2102, 2201, and 2202. An intensive study of the music of the eighteenth and early nineteenth centuries, beginning with the emergence of the galant style and ending with the music of Beethoven's last period.
- MUS 4204/G Studies in Music of the Classical Era** 3 cr.  
Prerequisites: MUS 2101, 2102, 2201, and 2202. An intensive study of the music of the eighteenth and early nineteenth centuries, beginning with the emergence of the galant style and ending with the music of Beethoven's last period.
- MUS 4205/G Studies in Music of the Romantic Era** 3 cr.  
Prerequisites: MUS 2101 2102 2201 and 2202. An intensive study of the music of the nineteenth century beginning with the operas of Weber and ending with Mahler and the earlier works of Richard Strauss.
- MUS 4206/G Twentieth Century Music** 3 cr.  
Prerequisites: MUS 2101 2102 2201 and 2202. An intensive study of the music of the modern period from Debussy to the present.
- MUS 4291/G Seminar in Music History** 3 cr.  
Prerequisites: MUS 2101 2102 2201 and 2202 or the equivalent. An intensive study of a limited aspect of music history through guided individual research and presentation of findings. Topic will vary from semester to semester. Course may be taken for credit three times.
- MUS 4310/G Vocal Pedagogy** 2 cr.  
Prerequisite: consent of department. A study of vocal teaching techniques including anatomy of vocal tract, physiological process and acoustical properties. Two hours of lecture and one hour of laboratory each week
- MUS 4311/G Piano Pedagogy** 2 cr.  
Prerequisite: MUS 2402 or equivalent. An examination and discussion of piano teaching materials and methods with emphasis on the elementary level. Course will include supervised teaching and demonstration classes. Two hours of lecture and one hour of laboratory each week.
- MUS 4312/G Instrumental Music Pedagogy** 2 cr.  
Prerequisite: Consent of the department. An introduction to the methods and materials for teaching instrumental music for the performance major. This course is designed to provide the instrumental music performance major with the skills and knowledge necessary for success as a studio teacher and clinician. Two hours

- of lecture and one hour of laboratory each week. Required of all undergraduate Classical division instrumental performance majors.
- MUS 4705/G Advanced Jazz Improvisation** 2 cr.  
Prerequisite: MUS 2706 or consent of department. A continuation of MUS 2706 with the objective of developing a personal style. Performances in the environment of the small combo with students grouped according to experience.
- MUS 4706/G Advanced Jazz Improvisation** 2 cr.  
Prerequisite: MUS 4705 or consent of department. A continuation of MUS 4705 that focuses on the skills needed to achieve a personal style as an improviser within the jazz context. Performances in both small combos and large ensembles.
- MUS 4802 Applied Composition** 3 cr.  
Prerequisite: MUS 4801 or equivalent. Applied composition with an emphasis on large-scale works.
- MUS 4807/G Jazz Arranging/Composition** 2 cr.  
Prerequisite: MUS 2110 or consent of department. A study of composing and arranging techniques for both small and large ensembles.
- MUS 4808/G Advanced Jazz Arranging/Composition** 3 cr.  
Prerequisite: MUS 4807 or consent of department. Continuation of MUS 3807 with emphasis on both arrangements and original compositions for the larger ensembles. Private or small group instruction.
- MUS 4810/G Piano Repertoire: Renaissance–Classical** 2 cr.  
Prerequisite: consent of department. A general survey of the solo piano repertoire from the period preceding Bach through the Classical period. Designed to acquaint the keyboard major with literature available for performance.
- MUS 4811/G Piano Repertoire: Romantic–Contemporary** 2 cr.  
Prerequisite: consent of department. A general survey of the solo piano repertoire of the Romantic and Contemporary periods. Designed to acquaint the keyboard major with literature available for performance.
- MUS 4813/G German Art Song Repertory** 2 cr.  
Prerequisite: consent of department. A study of the history, interpretation and poetic content of the art song in German from the Baroque period to the present. Designed to acquaint the vocal major with the literature available for performance.
- MUS 4814/G French Art Song Repertory** 2 cr.  
Prerequisite: consent of department. A study of the history, interpretation, and poetic content of the art song in French from the Baroque period to the present. Designed to acquaint the vocal major with the literature available for performance.
- MUS 4815/G Italian Art Song Repertory** 2 cr.  
Prerequisite: consent of department. A study of the history, interpretation, and poetic content of the art song in Italian from the Baroque period to the present. Designed to acquaint the vocal major with the literature available for performance.
- MUS 4816/G English Art Song Repertory** 2 cr.  
Prerequisite: consent of department. A study of the history, interpretation, and poetic content of the Art Song in English from the Baroque period to the present. Designed to acquaint the vocal major with the literature available for performance.
- MUS 4818/G Seminar in Choral Repertory** 3 cr.  
Prerequisites: MUS 2102 and 2201–2202 or consent of department. A survey of the monuments of choral repertory and an examination of the practical and philosophical criteria necessary for appropriate repertoire selection through the use of readings, listening assignments, and selected score preparations. Required for vocal music education majors.
- MUS 4900/G Internship in Music** 3 cr.  
Offered in the fall and spring semesters. Prerequisite: consent of department. Each semester the Department makes available a limited number of internships with music organizations, businesses, and other music-related agencies. Interns usually work 12 hours a week at times mutually agreeable to the individual and the agency. In addition, interns must attend discussion sessions on campus and complete written assignments. Both the agency supervisor and the course instructor will evaluate the intern's work.
- MUS 4901/G Chamber Ensemble** 1 cr.  
Prerequisite: consent of department. Intensive study of advanced chamber music and other works for small ensembles. In addition to participation in the ensemble, students will be assigned extra duties of a responsible nature such as coaching, conducting extra rehearsals, solo work, etc. A maximum of three hours credit in ensembles may be applied toward the graduate degree.
- MUS 4902/G University Jazz Band** 1 cr.  
Prerequisite: consent of department. The study and performance of large ensemble jazz materials with emphasis on contemporary idioms. In addition to participation in the ensemble, students will be assigned extra duties of responsible nature, such as conducting sectional rehearsals, solo work, assistant conductor, etc. A maximum of three hours credit in ensembles may be applied toward a graduate degree.
- MUS 4903/G University Band** 1 cr.  
Offered each semester and open to all students with consent of department. Intensive study of traditional and modern repertoire for concert and marching band. In addition to participation in the ensemble, students will be assigned extra duties such as section leading, conducting sectional rehearsals, and solo work. A maximum of three hours credit in ensembles may be applied toward a graduate degree.
- MUS 4904/G Privateer Chorus** 1 cr.  
Offered each semester and open to all students with consent of department. Study of choral music of all periods, including preparation for public performance. In addition to participation in the ensemble, students will be assigned extra duties such as section leading, conducting sectional rehearsals, and solo work. A maximum of three hours credit in ensembles may be applied toward a graduate degree.
- MUS 4905/G University Chorale** 1 cr.  
Offered each semester and open to all students by audition. Study and performance of choral literature. Campus and tour performances. In addition to participation in the ensemble, students will be assigned extra duties such as section leading, conducting sectional rehearsals, and solo work. A maximum of three hours credit in ensembles may be applied toward a graduate degree.
- MUS 4906/G Chamber Singers** 1 cr.  
Offered each semester and open to all students by audition. A small ensemble of mixed voices for the study and performance of choral music dating from 1500 to the present. In addition to participation in the ensemble, students will be assigned extra duties such as section leading, conducting sectional rehearsals, and solo work. A maximum of three hours credit in ensembles may be applied toward a graduate degree.
- MUS 4907/G Piano Accompaniment** 1 cr.  
Prerequisite: consent of department. Guided experience in sight-reading, preparation, and performance of advanced accompaniments for vocal and instrumental performers. A maximum of three hours credit in ensembles may be applied toward a graduate degree.

- MUS 4908/G Wind Ensemble** 1 cr.  
Offered each semester. Prerequisite: consent of department. Study and performance of advanced repertoire for wind ensemble. In addition to participation in the ensemble, students will be assigned extra duties of a responsible nature such as coaching, conducting extra rehearsals, solo work, etc. A maximum of three hours credit in ensembles may be applied toward a graduate degree.
- MUS 4909/G University Orchestra** 1 cr.  
Offered each semester. Prerequisite: audition. Study and performance of orchestral repertoire. A maximum of three hours credit in ensembles may be applied toward a graduate degree.
- MUS 4910/G University Orchestra** 1 cr.  
Offered each semester. Prerequisite: audition. Study and performance of orchestral repertoire. A maximum of three hours credit in ensembles may be applied toward a graduate degree.
- MUS 4950/G Opera Theater** 1 cr.  
Prerequisite: consent of department. A workshop course especially designed for the coordination of music and acting with particular emphasis on training the singing actor. Coaching in operatic scenes and training in the basic principles of dramatic aspects of opera. In addition to participation in the ensemble, extra duties of a responsible nature will be assigned. A maximum of three hours credit in ensembles may be applied toward a graduate degree.
- MUS 6000 Directed Independent Study** 1 cr. min./3 cr. max.  
Prerequisite: consent of department. Independent study in the graduate student's area of specialization, under the direction of a designated member of the graduate faculty. Credit is only applicable toward elective requirement. Total credit is limited to nine hours.
- MUS 6001 Directed Independent Study** 1 cr. min./3 cr. max.  
Prerequisite: consent of department. Independent study in the graduate student's area of specialization, under the direction of a designated member of the graduate faculty. Credit is only applicable toward elective requirement. Total credit is limited to nine hours.
- MUS 6002 Directed Independent Study** 1 cr. min./3 cr. max.  
Prerequisite: consent of department. Independent study in the graduate student's area of specialization, under the direction of a designated member of the graduate faculty. Credit is only applicable toward elective requirement. Total credit is limited to nine hours.
- MUS 6100 Graduate Theory in Performance** 3 cr.  
Prerequisites: MUS 4101 and 4102 or consent of department. This course is designed to demonstrate practical usage of theoretical ideas in musical performance.
- MUS 6101 Analytical Studies—Baroque Classical** 3 cr.  
A detailed study of selected major works of the Baroque and Classical periods
- MUS 6102 Analytical Studies—Romantic Twentieth Century** 3 cr.  
A detailed study of selected major works of the Romantic period and the Twentieth Century will be the basis of this study.
- MUS 6104 Theory Pedagogy** 3 cr.  
Prerequisite: consent of department. Prerequisite: MUS 6101 or 6102. An examination and discussion of music theory teaching materials and methods with an emphasis on college-level instruction.
- MUS 6105 Eighteenth Century Polyphonic Techniques** 3 cr.  
Prerequisite: MUS 4101 or equivalent. A detailed study of specific polyphonic techniques.
- MUS 6111 Seminar in Choral Conducting** 3 cr.  
Prerequisites: Consent of department and MUS 3111-3112 or equivalent. An advanced course in the interpretation of choral literature with special attention given to conducting technique, rehearsal problems and their solutions, and score preparation. Laboratory experience will be provided. May be repeated once for credit by students with choral conducting emphasis.
- MUS 6112 Seminar in Instrumental Conducting** 3 cr.  
Prerequisite: Consent of department and MUS 3111-3112 or equivalent. An advanced course in the interpretation of instrumental literature with special attention given to conducting technique, rehearsal problems and their solutions, and score preparation. Laboratory experience will be provided. May be repeated once for credit by students with instrumental conducting emphasis.
- MUS 6191 Seminar in Music Theory** 3 cr.  
Prerequisite: consent of department MUS 6101 or 6102. An intensive study of a limited aspect of music theory through guided research and presentation of findings. Topic will vary from semester to semester. Course may be taken three times.
- MUS 6200 Music Research Methods and Materials** 3 cr.  
Prerequisite: Consent of department. This is a writing-intensive course designed to help graduate students develop skills in music research and in the various forms and styles of academic and professional writing in music. The major goal of this course is to prepare students for the intellectual challenges of graduate academic work, including research papers and comprehensive examinations, and for the professional music market and industry. Students will explore the various print and electronic music research resources and engage in numerous writing and research projects.
- MUS 6291 Seminar in Music History** 3 cr.  
An intensive study of a limited aspect of music history through guided individual research and presentation of findings. Topic will vary from semester to semester. Course may be taken three times
- MUS 6292 Music in 20th Century America** 3 cr.  
This course addresses the growth of European Classical music, jazz, and the rise of popular music in the United States from the era of Caruso and Toscanini through the techno-rap of the 1990s. Particular attention is paid to the manner in which 20th century American culture has shaped attitudes about music: how radio, the phonograph, television and the internet have influenced the music that Americans heard, and how these developments have altered their understanding of music during the 20th century. Intended for both Classical and Jazz Division graduate students; Others admitted with the permission of the department. No prerequisites.
- MUS 6300 Seminar in Jazz History** 3 cr.  
Prerequisite: MUS 2205 or consent of department. A focused study of the music of a single contributor or related group of contributors selected from the major innovators in jazz history. Topic will vary from semester to semester.
- MUS 6310 Jazz Research & Discography** 3 cr.  
Prerequisite: MUS 2205 or consent of department. An advanced study of jazz research materials and methodology with an emphasis on jazz discography.
- MUS 6391 Advanced Seminar in Choral Music** 3 cr.  
Prerequisite: consent of department or 4818. An intensive study focusing on a selected topic in choral music through guided research and classroom discussion. Topic will vary from semester to semester. Course may be taken three times.
- MUS 6401 Applied Keyboard** 3 cr.  
Private instruction (one hour per week).
- MUS 6402 Applied Keyboard** 3 cr.  
Private instruction (one hour per week).
- MUS 6431 Applied Keyboard-Principal** 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).

MUS 6432 Applied Keyboard-Principal	3 cr.	MUS 6802 Applied Composition	3 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		Private instruction (one hour per week).	
MUS 6501 Applied Voice	3 cr.	MUS 6831 Applied Composition-Principal	3 cr.
Private instruction (one hour per week).		Private instruction (one hour per week) or small group instruction (two hours per week).	
MUS 6502 Applied Voice	3 cr.	MUS 6832 Applied Composition-Principal	3 cr.
Private instruction (one hour per week).		Private instruction (one hour per week) or small group instruction (two hours per week).	
MUS 6531 Applied Voice-Principal	3 cr.	MUS 6900 Graduate Colloquium	0 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		A forum to discuss problems common to all musical disciplines and to seek creative solutions through dialogue within the academic community. Required of all graduate students. Will be graded as satisfactory or unsatisfactory.	
MUS 6532 Applied Voice-Principal	3 cr.	MUS 6950 Half Recital	1 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		Presentation of a public recital of at least 30 minutes of actual playing duration. Content of the program must be similar to that normally included in professional recitals. A faculty committee will approve the program and grade the performance on a Pass-Fail basis.	
MUS 6601 Applied Strings	3 cr.	MUS 6990 Graduate Recital	3 cr.
Private instruction (one hour per week).		Presentation of a public recital of at least 60 minutes of actual playing duration. Content of the program must be similar to that normally included in professional recitals and must include works in several styles. A faculty committee will approve the program and grade the performance on a Pass-Fail basis.	
MUS 6602 Applied Strings	3 cr.	MUS 7000 Thesis Research	1 cr. min./9 cr. max.
Private instruction (one hour per week).		To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.	
MUS 6631 Applied Strings-Principal	3 cr.	MUS 7040 Examination or Thesis Only No credit	0 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.	
MUS 6632 Applied Strings-Principal	3 cr.		
Private instruction (one hour per week) or small group instruction (two hours per week).			
MUS 6701 Applied Woodwinds	3 cr.		
Private instruction (one hour per week).			
MUS 6702 Applied Woodwinds	3 cr.		
Private instruction (one hour per week).			
MUS 6711 Applied Brass	3 cr.		
Private instruction (one hour per week).			
MUS 6712 Applied Brass	3 cr.		
Private instruction (one hour per week).			
MUS 6721 Applied Percussion	3 cr.		
Private instruction (one hour per week).			
MUS 6722 Applied Percussion	3 cr.		
Private instruction (one hour per week).			
MUS 6731 Applied Woodwinds-Principal	3 cr.		
Private instruction (one hour per week) or small group instruction (two hours per week).			
MUS 6732 Applied Woodwinds-Principal	3 cr.		
Private instruction (one hour per week) or small group instruction (two hours per week).			
MUS 6741 Applied Brass-Principal	3 cr.		
Private instruction (one hour per week) or small group instruction (two hours per week).			
MUS 6742 Applied Brass-Principal	3 cr.		
Private instruction (one hour per week) or small group instruction (two hours per week).			
MUS 6781 Applied Percussion-Principal	3 cr.		
Private instruction (one hour per week) or small group instruction (two hours per week).			
MUS 6782 Applied Percussion-Principal	3 cr.		
Private instruction (one hour per week) or small group instruction (two hours per week).			
MUS 6800 Music Research and Technology	3 cr.		
MUS 6801 Applied Composition	3 cr.		
Private instruction (one hour per week).			

## Naval Architecture and Marine Engineering

NAME 2151 Introduction to Marine Design and Construction	3 cr.
Prerequisites: MATH 2111 or 2108, NAME 1151. Basic concepts of marine hydrostatics, resistance and propulsion, power systems, and seaway dynamics.	
NAME 2160 Form Calculations and Stability	3 cr.
Prerequisites: ENCE 2350 and NAME 2151. Lines plan; static stability, hydrostatic curves, determination of areas, volumes, displacement; buoyancy of damaged vessels and stability, launching of ships, towing of off-shore platform structures and their emplacement.	
NAME 3091 Naval Architecture Design Project	3 cr.
Prerequisites: Senior standing and consent of school. Individual or team study and evolution of a project involving engineering design, synthesis of systems in naval architecture. A comprehensive written report is required.	
NAME 3092 Marine Engineering Design Project	3 cr.
Prerequisites: Senior standing and consent of school. Individual or team study and evolution of a project involving engineering design, synthesis of systems in marine engineering. A comprehensive written report is required.	
NAME 3093 Special Problems in Naval Architecture	1 cr.
Prerequisite: Junior standing in engineering. Seminar, independent study, and research participation in naval architecture.	

- NAME 3094 Special Problems in Naval Architecture** 1 cr.  
Prerequisite: Junior standing in engineering. Seminar, independent study, and research participation in naval architecture.
- NAME 3095 Special Problems in Marine Engineering** 1 cr.  
Prerequisite: Junior standing in engineering. Seminar, independent study, and research participation in marine engineering.
- NAME 3096 Special Problems in Marine Engineering** 1 cr.  
Prerequisite: Junior standing in engineering. Seminar, independent study, and research participation in marine engineering.
- NAME 3120 Ship Hull Strength** 4 cr.  
Prerequisite: ENCE 2351, MATH 2221. Longitudinal strength, simple beam theory, trochoidal wave and Smith correction; weight, buoyancy, load, shearing force and bending moment curves; midship section modulus; composite hull girder; transverse strength; strain energy and moment distribution methods; torsional strength; torsion of thin-walled, open sections; torque distribution; torsional loads; the use of classification society rules in the mid-ship section. Three hours of lecture and three hours of laboratory.
- NAME 3130 Marine Engineering I (Power Systems)** 4 cr.  
Prerequisites ENME 3770 and credit or registration in ENME 3720. Marine diesel engines, gas turbines, their operating characteristics, performance and environmental limitations; main reduction gears, electric power generation and electric propulsion; engine-propeller matching, propeller characteristics, centrifugal and positive displacement pumps, cavitation, heat exchangers, valves, piping design, and auxiliary systems. Diesel engine selection for a given application and arrangement, determination of fuel requirements, development and sizing of a selected system for diesel engines. Three hours of lecture and three hours of laboratory.
- NAME 3150 Ship Resistance and Propulsion** 4 cr.  
Prerequisites: Mechanical Engineering 3720 with NAME 2160 as a co-requisite. Ship resistance; dimensional analysis and similitude; model testing extrapolation; propulsion systems; propellers and their interaction with the hull; cavitation; super cavitating propellers; special craft, such as surface effect ships, submarines, and hydro-foils; and optimization. Three hours of lecture and three hours of laboratory.
- NAME 3160 Off-Shore Structure and Ship Dynamics** 4 cr.  
Prerequisites: MATH 2314, MATH 2221, ENCE 2351, ENME 3720, ENME 2750, and credit or registration in NAME 2160. Theory of ship and off-shore structure motions in response to ocean waves free vibration of single and multi degree of freedom systems; simple harmonic; general period, and random forced vibrations; transients; off-shore structure oscillations; the dynamics of launching and platform assembly; hull and propeller vibrations maneuverability; and design applications. Three hours of lecture and three hours of laboratory.
- NAME 3171 Marine Design Methods** 4 cr.  
Prerequisites: NAME 2160 and credit or registration in NAME 3150 or NAME 4154. Design spiral; Selection of principal dimensions, arrangement drawings, lines plan development, 3D-modeling, CAD-CAM; Hydrostatic and stability calculations; Resistance, propulsion and seakeeping estimates; Economical and environmental assessment; Structural design. Two hour lecture and one three-hour laboratory per week.
- NAME 3900 Senior Honors Thesis** 1 cr. min./6 cr. max.  
Prerequisites: admission to the Honors Program and consent of the director of the Honors Program and the chair of the school. Senior-level research and/or design project in Naval Architecture and Marine Engineering. Thesis and oral examination required. May be repeated for credit with total hours not to exceed six.
- NAME 4095/G Special Topics in Marine Engineering** 2 cr.  
Course may be taken for credit three times.
- NAME 4096/G Special Topics in Naval Architecture** 3 cr.  
Prerequisite: Junior standing in engineering. May be taken for credit three times. No student may earn more than nine hours degree credit in Naval Architecture and Marine Engineering 4096 and 4097.
- NAME 4097/G Special Topics in Marine Engineering** 3 cr.  
Prerequisite: Junior standing in engineering. Courses may be taken for credit three times. No student may earn more than nine hours degree credit in NAME 4097.
- NAME 4120/G Ship Structural Analysis and Design** 3 cr.  
Prerequisite: NAME 3120. Review of longitudinal strength; principal stress distributions and stress trajectories; local strength analysis; panels under lateral load; columns and stanchions; panels in buckling under uniform edge compression loading and panels under shear and combination loading; rational ship section design synthesis based on stress and loading hierarchy; primary, secondary, and tertiary stresses as criteria of strength in ship structural design, including grillage aspects.
- NAME 4121/G Analysis and Design of Floating Offshore Structures** 3 cr.  
Prerequisite: NAME 2160. Design and analysis of floating offshore platforms in general. Unsteady hydrodynamics, linear and nonlinear water waves, prediction of wave forces on large and small bodies. Fluid pressure forces on moving bodies using relative motion approach and radiation/diffraction approach. Analysis and prediction of random waves and vessel response using spectral methods. Additional topics such as mooring analysis as time permits.
- NAME 4122/G Introduction to Marine Composites** 4 cr.  
Prerequisite: NAME 3120. Composite materials are introduced presenting their classification, fundamental characteristics, and main advantages and disadvantages. Present and future applications within the marine industry are discussed together with the materials most commonly employed and available manufacturing methods. Elements of the mechanics of both laminate and sandwich topologies are analyzed. Additional topics cover their performance characteristics, failure, maintenance, repair, testing and regulatory aspects are. Three hours of lecture and three hours of laboratory.
- NAME 4130/G Marine Engineering II** 3 cr.  
Spring and fall semesters. Prerequisite: NAME 3130. A study of ship propulsion systems, including waste heat utilization, availability, diesel engine performance, compressible pipe flow, shafting alignment, machinery vibration, and torsional vibration analysis.
- NAME 4131/G Reliability, Availability, and Maintenance of Engineering Systems** 3 cr.  
(ENMG 4131, ENME 4734, and ENEE 4131 are cross-listed) Prerequisite: MATH 2115. Review of probability and statistics; analytical stochastic models for component and system failures; strategies for inspection, maintenance, repair and replacement. Introduction to fault-tree and event-tree analysis; frequency and duration techniques; Markov models; and case studies.
- NAME 4132/G Management of Ship Life Cycle** 3 cr.  
Phases of ship life cycle, the economics of costs versus benefits, qualitative and quantitative analysis of marine systems, ship life cycle cost elements and total cost of ownership, systems engineering process modeling, ship design, production, maintenance and operation processes, decision making under uncertainty, databases, dynamic programming, risk-based decision making, management of human and organization error in ship operations concurrent engineering.

- NAME 4133/G Ship Production** 3 cr.  
Prerequisite: Junior standing or consent of department. An examination of the shipbuilding industry and ship construction techniques is provided including analysis of the market and management theory for shipyards, product work breakdown structure, modular methodologies, manufacturing methods, outfitting and painting techniques, shipyard layout and organization, planning/scheduling, and accuracy/quality assurance. Emphasis is placed on welding and lean six sigma practices.
- NAME 4141/G Curved Surface Design** 3 cr.  
Prerequisites: MATH 2112 and CSCI 1201. Computer-aided design of curved surfaces; wire-frame outlines of surface; boundary conditions; surface patches; geometric properties of surface; and smoothness.
- NAME 4151/G Small Craft Design** 4 cr.  
Prerequisite: Credit or registration in NAME 3120. Case study of a 60-foot motor boat design, planing theory, trim, lift and drag in planning. Use of standard series, hydrofoil vessel performance calculations, sea keeping, hull structure, hull materials, powering using supercavitating propellers or pump-jet. Team Design project required for all students. Three hours of Lecture and three hours of Laboratory.
- NAME 4160/G Ship Hydrodynamics II** 3 cr.  
Spring and fall semesters. Prerequisite: NAME 3150. A study of ship hydrodynamic problems in the areas of viscous fluid motion, ideal fluid flow, two-dimensional hydrofoils, three-dimensional foils as well as propeller theory.
- NAME 4162/G Offshore Structures and Ship Dynamics II** 4 cr.  
Prerequisites: NAME 3150 NAME 3160 and MATH 2115. Linear oscillatory motion of floating bodies (Ships and Offshore Structures) due to water waves. Vibration theory, unsteady ideal flow theory, water wave theory, and linear ship motions theory. Prediction of ship platform motion in regular and irregular waves. Developments in hydroelasticity, maneuvering, and nonlinear ship motion. In addition a laboratory experience will allow the students to compare theoretical and computer predicted motions with measured motions in the wave/tow tank. A laboratory component is also included in the course.
- NAME 4170 Marine Design** 3 cr.  
Prerequisites: ENGL 2152, NAME 3130, NAME 3171, either NAME 3150 or NAME 4154, and credit or registration in NAME 3120. Preliminary ship and offshore structures design to meet owner's general, environmental, and economical requirements; principal dimensions, form, power requirements and stability; outfitting; structural design; preparation of preliminary design drawings. Two hours of lecture and one three-hour laboratory per week. Not for graduate credit.
- NAME 4171/G Admiralty Law for Engineers** 2 cr.  
Prerequisites: consent of department and senior standing in engineering or equivalent. An introduction to legal problems which confront engineers in marine design, construction, and operation. Applies to river and ocean transport and offshore production.
- NAME 4175/G Marine Design Project** 3 cr.  
Prerequisite: Credit or registration in NAME 3160, NAME 4170. Completion of the project started in the prerequisite course; the preliminary design of a ship or other marine system component: hull, machinery, or an off-shore platform. Six hours of laboratory per week.
- NAME 4177/G Advanced Marine Vehicle Design** 3 cr.  
Prerequisite: Credit or registration in NAME 3150. A study of advanced marine vehicle design for high-speed transport; transport factor evaluation of high-speed craft, design of high multi-hull crafts, surface effect ships, hybrid vessels, and wing in ground craft. 3 units min/3 units max. Lecture.
- NAME 4723/G Ocean and Coastal Engineering** 3 cr.  
(ENCE 4723, ENME 4723, and NAME 4723 are cross-listed). Prerequisite: ENME 3720 or ENCE 3318 or consent of the department. Elements of wind and wave generation and forecasting, tidal phenomena, hurricanes, storm surge, tsunamis, interaction of waves and wind with coastal and offshore structures, coastal and estuary processes. Design aspects of various topics are discussed and analyzed: e.g., offshore structures, spar buoys, underwater pipelines, oil production risers, coastal protection, mooring cables, vortex shedding, gas flares, beach formation, harbor resonance, structure resonance, etc. A design project is required.
- NAME 4728/G Introduction to Computational Fluid Dynamics** 3 cr.  
(NAME 4728 and ENME 4728 are cross-listed.) Prerequisites: Mechanical Engineering 3720. Classification of partial differential equations, mathematical description of fluid flow phenomena. Survey of various discretization methods for the equations of fluid mechanics, including finite difference, finite volume and weighted residual methods. Basic algorithms for solving fluid mechanics problems. Introduction to grid generation. Application of existing CFD codes to practical engineering problems.
- NAME 6080 Systems Engineering** 3 cr.  
Prerequisite: Consent of department. Introduction to the fundamentals of systems engineering. Presents a holistic approach to principles, methods, and tools for system engineering as applied to complex systems development. Systems engineering includes the analysis of complexity through decomposition and re-integration, the prediction of emergent properties, writing and providing traceability for requirements, methods for uncertainty and risk analysis as applied to cost and technology, and evolution of design and operations. Focuses on the conceptual phase of product definition, including technical, economic, market, environmental, regulatory, legal, manufacturing, and societal factors. Various standards, guides, and handbooks are applied to establish a basis for synthesis to a system domain.
- NAME 6093 Independent Study in Naval Architecture** 1 cr. min./6 cr. max.  
Individual projects in selected fields of naval architecture. Independent work under the direction of a faculty member on a subject of mutual interest. A written report will be required. Course by be repeated for credit but no more than a total of six credit hours may be applied toward a degree. Section number will correspond with credit to be earned.
- NAME 6097 Advanced Special Topics in Marine Engineering** 3 cr.  
Prerequisite: consent of school. Special lecture on subjects of current interest in marine engineering. May be taken for credit three times. No student may earn more than nine hours of degree credit in courses Naval Architecture and Marine Engineering 4096, 4097, 6097, 6098.
- NAME 6098 Advanced Special Topics in Marine Engineering** 3 cr.  
Prerequisite: consent of school. Special lecture on subjects of current interest in marine engineering. May be taken for credit three times. No student may earn more than nine hours of degree credit in courses Naval Architecture and Marine Engineering 4096, 4097, 6097, 6098.

**NAME 6121 Marine Structural Vibrations** 3 cr.  
Prerequisite: Naval Architecture and Marine Engineering 3160 or consent of department. This course focuses on vibration of ship and offshore structures including linear, nonlinear, and random vibrations and dynamic problems (slamming). The problems of vibration of plates and shells of ship hulls are also considered.

**NAME 6122 Composite Structures** 3 cr.  
Prerequisites: ENCE 2351, MATH 2221. Composite materials used in engineering; calculation of characteristics of materials; theory of composite structures; strength, buckling, and vibration of composite plates and shells; thermal stresses; elements of the mechanics of sandwich structures.

**NAME 6125 Advanced Offshore Engineering** 3 cr.  
Prerequisite: NAME 4121 or consent of department. This course will continue the study of offshore engineering begun in the introductory course. This course will review unsteady hydrodynamics, linear water waves, Morrison's equation approach to wave loading, and statistical description of ocean waves. Following will be a discussion of nonlinear water waves, diffraction and slowdrift forces. An advanced treatment of offshore platforms motions including the relative motion approach and numerical water wave diffraction and radiation methods. Also studied will be statistical prediction of short and long term extremes, reliability based design and viscous forces on cylinders. Additional topics as time permits.

**NAME 6145 Parametric Hull Modeling and Shape Optimization** 3 cr.  
Prerequisite: NAME 3150, NAME 3160, NAME 4141 or instructor's permission. Parametric modeling of curves and surfaces, mathematical description of hulls, parametric design of ship and offshore structure hulls; Basics of optimization, optimization algorithms, multi-objective optimization, optimization of hulls with respect to resistance, propulsion and seakeeping based on stochastic models.

**NAME 6160 Numerical Methods in Hydrodynamics** 3 cr.  
Prerequisites: NAME 4160, CSCI 1201 or knowledge of computer programming. Numerical methods for the solution of governing equations in hydrodynamics. Use of numerical integration, finite difference methods, and use of viscous flow calculation software to calculate fluid pressure, force, and the flow field around geometric bodies and ship hulls.

**NAME 6164 Advanced Ship/Offshore Platform Motions** 3 cr.  
Prerequisite: NAME 4162 or consent of department. This course will continue the study of ship and platform motions begun in the introductory courses and address some additional advanced topics. These advanced topics will include: finite amplitude coupled ship motions in six-degrees of freedom described by Euler's equations of motion and Euler angle kinematics; nonlinear ship rolling motion and capsizing; ship maneuvering and control including rudder design and controls fixed stability; time-domain representation of hydrodynamic forces; analysis and design of motion reducing devices; etc.

**NAME 6166 Probabilistic Ship/Offshore Platform Dynamics** 3 cr.  
Prerequisites: NAME 4162 or consent of department. Wind generated water waves which occur in nature are random. This course will continue the discussion of a vessel's response to a narrow banded random seaway begun in introductory courses and consider non-narrow banded and non-linear effects. Needed stochastic concepts such as ensemble averages, correlation functions, stationary and ergodic random processes, and power spectra are developed heuristically. Various spectral formulations will be considered. Short-term and long-term design in a given sea spectrum versus a family of spectra will be considered. Wave record analysis and generation

will be discussed. Order statistics and their relation to extreme values will be studied. Recent developments in the field will also be considered.

**NAME 6168 High Speed Hydrodynamics** 3 cr.  
Prerequisite: NAME 4160 and consent of the department. The principal contributions to the foundations of planing theory are reviewed to elucidate the driving physics of the planing hydrodynamics process and as a demonstration of the practical potential of approaches to analysis of calm-water planing of general hard-chine hull forms. Planing boat sea keeping analysis is presented and applied to modern hull forms. Applications to catamarans, both calm water and seaway dynamics, is included via computational methods.

**NAME 6175 Design of Fixed Offshore Platforms** 3 cr.  
(ENCE 6375 and NAME 6175 are cross-listed) Prerequisites: ENCE 3356 (or NAME 3120), ENCE 4358 (or NAME 3120), ENCE 4340, or permission of Department. Design of fixed offshore platform structures and their foundations; loadings, materials, design codes; design examples.

## Naval Science

**NAVS 1010 Introduction To Naval Science & Lab** 3 cr.  
A general introduction to the Navy and Marine Corps. The instruction places particular emphasis on the mission, organization, regulations, and broad warfare components of the Navy. Included is an overview of officer and enlisted rank and rating structures, the basic tenets of naval courtesy and customs, discipline, Navy Core Values, naval leadership, and ship's nonmenclature. The course also provides a conceptual framework/working vocabulary for NROTC students to use on Summer Cruise. The student is made cognizant of the major challenges facing today's naval officer.

**NAVS 1011 Naval Science Lab I** 0 cr.  
A non-graded but mandatory laboratory which must be taken concurrently with NAVS 1010.

**NAVS 1020 Seapower** 3 cr.  
Designed to develop the student's knowledge and interest in sea power and maritime affairs, this course is oriented towards the influence of sea power upon history and the implementation of sea power as an instrument of national policy. The survey begins with the age of galley warfare and concludes with an analysis of current military operations.

**NAVS 1021 Seapower Lab** 0 cr.  
A non-graded but mandatory laboratory which must be taken concurrently with NAVS 1020.

**NAVS 2010 Naval Ship Systems I & Lab** 3 cr.  
An introduction to the principles of ship design and operation. Ship stability, structure, main propulsion system, and auxiliary subsystems are carefully examined with emphasis on the interdependency of the subsystems which comprise the overall ship system.

**NAVS 2011 Naval Ship Systems I Lab** 0 cr.  
A non-graded but mandatory laboratory which must be taken concurrently with NAVS 2010.

**NAVS 2200 Leadership & Management & Lab** 3 cr.  
A comprehensive study of organizational behavior and management. Topics include survey of management functions of planning, organizing, and controlling; and introduction to individual/group behavior in organizations; and extensive study of motivational/leadership. Major behavior theories explored in detail. Practical applications explored through using experiential exercises, case studies, and laboratory discussions. Other topics include decision

- making communication, responsibility, authority, accountability, and total quality leadership.
- NAVS 2201 Leadership & Management Lab** 0 cr.  
A non-graded but mandatory laboratory which must be taken concurrently with NAVS 2200.
- NAVS 3010 Naval Ship Systems II** 3 cr.  
This course provides an introduction to theory and principles of operation of naval weapons systems. It includes coverage of types of weapons and fire control systems, capabilities and limitations, theory of target acquisition, identification and tracking, trajectory principles, and basics of naval ordinance.
- NAVS 3011 Naval Ship Systems II Lab** 0 cr.  
A non-graded but mandatory which must be taken concurrently with NAVS 3010.
- NAVS 3100 Navigation I** 3 cr.  
A comprehensive study designed to introduce the theory and practical applications of marine navigation. Topics include an understanding of the marine environment, terrestrial and celestial navigation theory, navigational equipment, visual navigation aids, nautical charts and publications, and electronic navigation theory.
- NAVS 3101 Navigation I Lab** 0 cr.  
A non-graded but mandatory laboratory which must be taken concurrently with NAVS 3100.
- NAVS 3110 Navigation II & Lab** 3 cr.  
A comprehensive study of the theory, principles, and procedures of ship navigation, movements, and employment. Topics include: communications; sonar-radar search and screening theory; tactical formations, disposition, and relative motion where maneuvering board and tactical plots are analyzed for force effectiveness and unity; rules of the road, lights, signals, and navigational aids, including inertial and global positioning systems.
- NAVS 3111 Naval OPS Analysis Lab** 0 cr.  
A non-graded but mandatory which must be taken concurrently with NAVS 3110.
- NAVS 3120 Evolution of Warfare** 3 cr.  
This course traces the development of warfare from the dawn of recorded history to present, focusing on the impact of major military theorists, strategists, tacticians, and technological developments. Students acquire a basic sense of strategy, develop an understanding of military alternatives, and see the impact of historical precedence on military thought and actions. This course concludes with a review of the various modern warfare concepts and principles outlined in the National Command Authorities Joint Vision 2010, and briefly explores the future of armed conflict.
- NAVS 3121 Evolution of Warfare Lab** 0 cr.  
A non-graded but mandatory laboratory which must be taken concurrently with NAVS 3120.
- NAVS 3130 Amphibious Warfare & Lab** 3 cr.  
This course surveys the historical development of amphibious doctrine and the conduct of amphibious operations. Emphasis is placed on the evolution of amphibious warfare in the 20th century, especially during World War II. This course explores present day capabilities, limitations, and the force structure of current amphibious forces, and establishes a foundation for understanding the future of littoral warfare.
- NAVS 3131 Amphibious Warfare Lab** 0 cr.  
A non-graded but mandatory laboratory which must be taken concurrently with NAVS 3130.
- NAVS 3200 Leadership & Ethics** 3 cr.  
Completes final preparations of NROTC ensigns/2nd Lieutenants for their first fleet assignments as division officers or platoon commanders. Topics of discussion include: military leadership, values/professional ethics; the Uniform Code of Military Justice and Navy regulations emphasizing Navy/ Marine Corps junior officer's typical application of law; and separate discussions of Navy and Marine Corps personnel policies and practices relating to the roles of enlisted members, junior and senior officers, personnel counseling, evaluation, advancement, career planning, personal finances, drug and alcohol abuse, fraternization and sexual harassment, and reporting aboard to their first command.
- NAVS 3201 Leader & Ethics Lab** 0 cr.  
A non-graded but mandatory laboratory which must be taken with NAVS 3200.

## Public Administration

- PADM 4220/G The Nonprofit Sector** 3 cr.  
An introduction to how nonprofit organizations, the third sector of the U.S. economy, provide solutions to community problems locally and worldwide.
- PADM 4221/G Collaboration, Partnership and Coalition Building** 3 cr.  
A survey of the knowledge needed to create effective partnerships and collaboration among nonprofit leaders and with individuals and organizations in other sectors of the economy.
- PADM 4222/G Legal and Ethical Issues in the Nonprofit Sector** 3 cr.  
An introduction to key legal and ethical issues involved in organizing and leading nonprofit organizations.
- PADM 4223/G Financial Administration and Development for Nonprofit Organizations** 3 cr.  
A summary of financial and accounting tools needed to build and diversify resources for nonprofit organizations and to manage their fiscal affairs.
- PADM 4224/G Leadership in Nonprofit Organizations** 3 cr.  
A review of established leadership theories and their applicability to local nonprofit leadership examples.
- PADM 4300/G The Dynamics of the Administration of Large Cities: A Case Study Approach** 3 cr.  
Prerequisite: POLI 4210. This introductory course is to familiarize students with the basic components and dynamics of large municipal governments. Topics to be covered include: governmental structural forms, transitions between administrations, personnel selection, and budgeting, program development, master planning program implementation, city services, industrial development, and media considerations. These topics are offered so that students may understand how they are interrelated in a synergistic way as government operates.
- PADM 4800/G Studies in Special Urban Problems** 3 cr.  
Prerequisite: consent of school. This course is a study of urbanization and population the city as a social and cultural environment and social problems of cities.
- PADM 4810/G Environmental Justice in Urban Environments** 3 cr.  
Prerequisites: URBN 4030 or URBN 4140 or consent of college. This course examines the treatment of all groups in the US with respect to benefits and burdens from the development, implementation and enforcement of environmental laws, regulations and processes. Particular emphasis is given to the problems of the disproportion-

- ate siting of hazardous waste treatment, storage, disposal, and recycling facilities in poor and minority neighborhoods.
- PADM 4900 Independent Study** 3 cr.  
Prerequisite: consent of school. Independent research under the direction of a designated member of the faculty. May be repeated once. Maximum of six credit hours allowed. Not for graduate credit.
- PADM 6001 Research Methods in Public Administration** 3 cr.  
A graduate introduction to research design and the application of selected quantitative and qualitative methods to problems typical of public and nonprofit sectors.
- PADM 6010 The Profession of Public Administration** 3 cr.  
This course is a graduate-level introduction to the study of public administration. Public administration involves the “core activities” of government that are usually performed by highly trained professionals in specialized organizations. The course employs lecture, readings, case studies, discussion, and practical exercises to provide an overview of the profession of public administration, including its historical development, values, and issues.
- PADM 6020 Bureaucracy and Democracy** 3 cr.  
Prerequisite: PADM 6010 The Profession of Public Administration. This course focuses on the relationship of the bureaucracy to its broader political environment and the many important questions related to the place of bureaucracy in a democratic society. It emphasizes the role of professional administrators in the policy process from the passage of laws to interpretation, rule making, implementation, accountability, and revision.
- PADM 6110 Public Budgeting** 3 cr.  
The course will provide an overview of public budgeting in the United States. The course will combine both theory and practice. The course format will be primarily lecture/discussion, but all students will participate online as well. In addition to weekly readings in the text, various budget exercises and Blackboard discussion board assignments, students enrolled for graduate credit will prepare one brief research paper and act as team leaders for budget simulation exercises.
- PADM 6130 U.S. Disaster Policy** 3 cr.  
This course familiarizes students with disaster policy within the United States, including the occurrence, magnitude, and distribution of a broad variety of hazards, and discusses appropriate public policy responses in order to protect public safety and to reduce physical and economic damage.
- PADM 6150 Administration of Urban Public Service Organizations** 3 cr.  
Prerequisite: POLI 6110 or the equivalent. This course covers the administration of public service delivery organizations in a complex urban environment. Topics to be covered include use of budget information systems, monitoring of organizational performance, and problems of implementation. Case studies will be used extensively.
- PADM 6160 Law and Ethics of Public Administration** 3 cr.  
This course will examine the legal and ethical context of administrative practice in the United States, including the legal and ethical constraints on the exercise of administrative discretion in the public sector and the relationship between professional and personal values and its consequences for public management.
- PADM 6180 Human Resources Administration in the Public Sector** 3 cr.  
This is a course for administrators who want a broad understanding of the function of human resources management in program and policy implementation. This course provides an overview of human resources management in public organizations (government and nonprofit) and introduces students to elements of personnel policies and practices that can be applied in a broad range of organizational settings.
- PADM 6201 Policy Analysis and Program Evaluation** 3 cr.  
Prerequisite: URBN 6001 – Research Methods. An examination of techniques, procedures, and limitations of policy analysis and program evaluation. Topics covered include policy analysis, the planning and organizing of project evaluations, the writing of evaluation designs, evaluation methodologies, data collection and verification, analysis and interpretation of findings. The theme of the course is the necessity of accountability in public programs.
- PADM 6300 Managing Change Public Organizations** 3 cr.  
Prerequisite: consent of department. A seminar on the ways in which public organizations approach and resist change. The theme is how planning, budgeting, and evaluation are used by administrators to bring about change.
- PADM 6401 Administrative Behavior** 3 cr.  
A primary goal of public administrators should be assuring that the technical and ethical performance of public employees and the emerging service delivery are highly effective. This course is designed to help prepare public administrators accomplish this goal. It approaches public administration and management as a challenging enterprise that requires practitioners to demonstrate effective leadership, solve problems, motivate and monitor employee performance, resolve conflicts, and enhance interpersonal and organizational communication.
- PADM 6410 Technology in Public Organizations** 3 cr.  
This course is a graduate-level introduction to the use and impact of technological systems in public and nonprofit organizations. It is designed to provide administrators with an understanding of the basic practical and normative issues raised by innovations in information technology. The course covers the major concepts and theories explaining the role of computers and related technologies in public and nonprofit organizations.
- PADM 6900 Independent Study** 3 cr.  
Offered each semester. Independent research in the graduate student’s area of specialization under the direction of a designated member of the graduate faculty. May be repeated for credit.
- PADM 6901 MPA Capstone I** 3 cr.  
Prerequisite: 24 hours of work toward the MPA degree including URBN 6001, Research Methods, and PADM 6201, Policy Analysis and Program Evaluation. Students who do not have significant public service experience should take this course in conjunction with their internship. This course is the first part of a two-semester sequence for students who are nearing the completion of their MPA degree and who choose a project instead of a thesis. The class is organized as a seminar in which students share their experiences and critique and help each other work on projects. In Capstone I each student will produce a research design for the capstone project, including a thorough review and analysis of relevant literature.
- PADM 6902 MPA Capstone II** 3 cr.  
Prerequisite: 24 hours of work toward the MPA degree including URBN 6001, Research Methods, PADM 6201, Policy Analysis and Program Evaluation, and PADM 6901, Capstone I. This course is the second part of a two-semester sequence for students who are nearing the completion of their MPA degree and who choose a project instead of a thesis. The class is organized as a seminar in which students share their experiences and critique and help each other work on projects. Each student will complete and defend a project report before a committee of graduate faculty and at least one practitioner having substantial professional experience with the subject matter of the project.

- PADM 7000 Thesis Research** 1 cr. min./9 cr. max.  
Offered each semester. To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.
- PADM 7040 Examination or Thesis Only No credit** 0 cr.  
Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.
- Philosophy**
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- PHIL 1000 Introduction to Philosophy** 3 cr.  
An introductory study of basic philosophical concepts and problems.
- PHIL 1050 Reasoning** 3 cr.  
A study of the methods of understanding, analyzing, and criticizing arguments. The emphasis will be on increasing one's practical skills as a critical thinker. The arguments will be of the sort encountered in day-to-day life, e.g. those found in advertisements, newspaper editorials, and political campaigns.
- PHIL 1100 Introduction to Logic and the Scientific Method** 3 cr.  
Not open to students who place at a remedial level in mathematics until they have completed MATH 0107. An introduction to the theory of deductive reasoning.
- PHIL 1200 Social Ethics** 3 cr.  
A study of representative issues of contemporary social concern, such as capital punishment, civil disobedience, abortion, violence, racial and sexual discrimination. Emphasis will be on clarifying the ethical and other philosophical assumptions underlying the issues and on careful analysis of arguments.
- PHIL 2090 Philosophical Problems** 3 cr.  
A detailed investigation of a particular philosophical problem or problems, varying in content from semester to semester, with appropriate readings from classical and/or contemporary sources. May be repeated once for credit.
- PHIL 2093 Independent Work** 1 cr.  
Prerequisite: consent of department. Reading, conferences, and reports under the direction of a member of the philosophy faculty.
- PHIL 2094 Independent Work** 1 cr.  
Prerequisite: consent of department. Reading, conferences, and reports under the direction of a member of the philosophy faculty.
- PHIL 2095 Independent Work** 1 cr.  
Prerequisite: consent of department. Reading, conferences, and reports under the direction of a member of the philosophy faculty.
- PHIL 2102 Symbolic Logic** 3 cr.  
A study of truth-functional and first-order predicate logic. Open to all students and especially recommended for philosophy majors.
- PHIL 2201 Ethics** 3 cr.  
A study of concepts of right and wrong good and evil and their grounds.
- PHIL 2203 Philosophy and Feminism** 3 cr.  
A critical examination of traditional and contemporary conceptions of the moral, social, and metaphysical status of women. Special attention will be paid to the strengths and weaknesses of feminist theories concerning the philosophical nature and significance of gender and related concepts.
- PHIL 2205 Social and Political Philosophy** 3 cr.  
An introduction to theories and problems concerning the nature and justification, if any, of society, authority, and the state.
- PHIL 2207 Philosophy of Law** 3 cr.  
A critical examination, at an introductory level, of questions concerning the nature and foundations of law, the relation of law and morality and law and society, and of key concepts such as responsibility and punishment.
- PHIL 2222 Philosophy of Sex and Love** 3 cr.  
An investigation of the nature of sex and the nature of love, and of the conceptual relationship between them. The course draws on both classical and contemporary philosophy, and addresses social and ethical issues about sexual behavior and love.
- PHIL 2244 Engineering Ethics** 1 cr.  
This course will examine ethical issues arising in the professional and social-policy aspects of engineering. Coverage includes such topics as: codes of professional ethics, methods of moral problem solving, honesty, risk, responsibilities to employers and to the public, technology and the environment, and moral issues in management, research, and consulting.
- PHIL 2250 Philosophical Backgrounds of Literary Criticism** 3 cr.  
A critical review and analysis of the philosophical foundations of the more important theories of literary criticism from Plato to the present time.
- PHIL 2311 History of Ancient and Medieval Philosophy** 3 cr.  
A survey of philosophy from the early Greeks through the middle ages including such philosophers as the Pre-Socratics, Socrates, Plato, Aristotle, Augustine, and Thomas Aquinas.
- PHIL 2312 History of Modern Philosophy** 3 cr.  
A survey of philosophy since the beginning of the 17th century, including such philosophers as Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, Kant, and Hegel.
- PHIL 2314 American Philosophy** 3 cr.  
Readings in American philosophy and its sources, including such thinkers as Edwards, Jefferson, Emerson, Peirce, James, Royce, Dewey, Santayana, and Whitehead.
- PHIL 2411 Philosophy of Language** 3 cr.  
A critical survey and analysis of philosophical theories of meaning, reference, analyticity, synonymy, truth, and the relation of language to reality.
- PHIL 2413 Contemporary Philosophy** 3 cr.  
A survey of selected important philosophical developments since 1900.
- PHIL 2430 Methods of Science** 3 cr.  
An introductory study and survey of scientific methodology and concepts and, especially, of the nature of scientific reasoning: the manner in which science proposes, tests, confirms, and refutes theories and hypotheses about the natural world.
- PHIL 2450 Philosophy of Mind** 3 cr.  
Prerequisite: three hours of philosophy or consent of department. A critical survey and analysis of major problems in the philosophy of mind: personal identity, the existence of other minds, the relationship of mind and body.
- PHIL 2701 Religions of the East** 3 cr.  
A systematic analysis of the doctrine and practices of major religions outside the Judaeo-Christian tradition; such as Buddhism, Confucianism, Hinduism, Taoism, and others, including the influence of Islam. Particular attention will be given to the philosophical presuppositions of each religion.

- PHIL 2702 Religions of the West** 3 cr.  
A systematic analysis of the doctrine and practice of the “religions of Abraham”: Judaism, Christianity, and Islam. Particular attention will be given to the philosophical presuppositions of each religion.
- PHIL 3001 Senior Honors Thesis** 3 cr.  
Prerequisite: consent of department and Director of the Honors Program. Directed research leading to the writing of a Senior Honors Thesis. This course must be repeated once in order to graduate With Honors in Philosophy. Credit for this course will not be counted toward the 30 hours of philosophy courses required for a major in philosophy.
- PHIL 3030 Individual Senior Seminar** 1 cr.  
Required of all philosophy majors during their senior year. Under the direction of a faculty member, the student prepares a senior qualifying paper which will be evaluated by the department as a whole. Successful completion of this course satisfies the general degree requirement for oral competency.
- PHIL 3094 Directed Readings in Philosophy** 3 cr.  
Prerequisites: three hours of philosophy and consent of department. This course may be repeated once for credit.
- PHIL 3095 Special Topics in Philosophy** 3 cr.  
Prerequisite: three hours of philosophy or consent of department. The course may be repeated once for credit. Topic varies.
- PHIL 3101 Advanced Logic** 3 cr.  
Prerequisite: PHIL 2102 or consent of department. A study of the semantics of formal languages, including proofs of the consistency and completeness of the propositional and first-order predicate logics. The course may also include discussion of such non-standard logics as multi-valued, modal, and deontic.
- PHIL 3201 Advanced Ethics** 3 cr.  
Prerequisite: PHIL 1200, 2201, 2205, or 2207, or consent of department. A systematic study of major positions, problems, and concepts in ethical theory, as represented in classical and contemporary works.
- PHIL 3232 Medical Ethics** 3 cr.  
A critical exploration of basic moral issues in medical practice and research, such as: genetic engineering, abortion, euthanasia, paternalism, truth-telling, confidentiality, informed consent, distribution of resources, and experimentation on human and nonhuman subjects.
- PHIL 3250 Philosophy of the Arts** 3 cr.  
Prerequisite: three hours of philosophy or consent of department. A critical inquiry into the nature of artistic production, performance, enjoyment, and evaluation. What is art? How does the concept apply to music, literature, painting, sculpture, architecture, dance, theatre? What is the “aesthetic” experience? These and other questions will be explored through discussion of relevant readings and examples.
- PHIL 3301 The Philosophy of Plato** 3 cr.  
Prerequisite: three hours of philosophy or consent of department. A close reading of the most famous and influential dialogues of the fourth-century B.C. Athenian Plato, the first great systematic thinker of Western philosophy and the creator of some of the basic concepts of Western culture.
- PHIL 3302 The Philosophy of Aristotle** 3 cr.  
Prerequisite: three hours of philosophy or consent of department. Aristotle’s ideas are examined through careful analysis of his main works with emphasis on his criticisms of the basic theories of his teacher, Plato, and Aristotle’s influence on subsequent Western philosophy, literature, and science.
- PHIL 3331 Continental Rationalism and the 17th Century** 3 cr.  
Prerequisite: three hours of philosophy or consent of department. Readings in Seventeenth Century thinkers such as Descartes, Spinoza, and Leibniz, whose speculations about the structure of existence helped form the theoretical framework of modern science. Their fundamental ideas about the nature and limits of human knowledge will be examined.
- PHIL 3332 British Empiricism and the Eighteenth Century** 3 cr.  
Prerequisite: three hours of philosophy or consent of department. A study of the doctrines and arguments of Locke, Berkeley, and Hume who exerted a formative influence on the development of philosophy, science, politics, and literature.
- PHIL 3333 The Philosophy of Immanuel Kant** 3 cr.  
Prerequisite: three hours of philosophy or consent of department. A study of the main doctrines and arguments of Immanuel Kant, 18th Century philosopher who revolutionized ethics, aesthetics, metaphysics, and epistemology.
- PHIL 3334 German Idealism and the Nineteenth Century** 3 cr.  
Prerequisite: three hours of philosophy or consent of department. A study of the most important ideas in continental philosophical speculation during the generations immediately after Kant; major figures include Hegel and his contemporaries, such as Fichte, Schelling, and Schopenhauer, whose metaphysical theories exerted considerable influence on the Romantic movement and on Marxism and other forms of socialism.
- PHIL 3400 Metaphysics** 3 cr.  
Prerequisite: three hours of philosophy or consent of department. An examination of fundamental issues and problems in metaphysics, such as the nature of reality, universals, personal identity, persistence through change, space, and time.
- PHIL 3401 Theories of Knowledge** 3 cr.  
Prerequisite: three hours of philosophy or consent of department. A philosophical investigation of the meaning, varieties, limits, and grounds of human knowledge.
- PHIL 3415 Phenomenology and Continental Philosophy** 3 cr.  
Prerequisite: three hours of philosophy or consent of department. An introduction to the doctrines, methods, and themes of phenomenology in the context of twentieth century continental philosophy, with attention to the growing impact of phenomenology on American philosophers, social scientists, and literary critics. This course will involve a careful study of the work of important figures in the phenomenological movement such as Husserl, Heidegger, Sartre, Merleau-Ponty, Schutz, and others.
- PHIL 3422 Analytic Philosophy** 3 cr.  
Prerequisite: three hours of philosophy or consent of department. An examination of the methods and doctrines of the leading approach to philosophy in the twentieth century in the English-speaking world. Such thinkers as Wittgenstein, Russell, Moore, Carnap, Austin, and Quine will be discussed.
- PHIL 3430 Philosophy of the Natural Sciences** 3 cr.  
Prerequisites: three hours of philosophy and eight hours of science or consent of department. An examination in detail of the outstanding problems, positions, and achievements within contemporary philosophy of science. Attention will be given to issues arising from both the physical and the biological sciences.
- PHIL 3431 Philosophy of the Social Sciences** 3 cr.  
Prerequisites: three hours of philosophy and nine hours of social sciences or consent of department. A philosophical examination of theories, laws, explanations, and concepts in contemporary social sciences such as anthropology, psychology, sociology, economics, and psychoanalysis.

- PHIL 3450 Philosophical Psychology** 3 cr.  
Prerequisite: three hours of philosophy or consent of department. A critical inquiry into the philosophical aspects of concepts such as intentionality, thought, consciousness, motivation, emotion, and action.
- PHIL 3480 Philosophy of Religion** 3 cr.  
Prerequisite: three hours of philosophy or consent of department. A systematic study of such issues as implications of religious experience, attempted proof of the existence (or nonexistence) of God (or gods), the problem of divine foreknowledge, and the problem of evil.
- PHIL 3500 The Philosophy of Wittgenstein** 3 cr.  
Prerequisite: three hours of philosophy or consent of department. A close and critical examination of the works of Ludwig Wittgenstein, widely regarded as the most important philosopher of the 20th Century.
- PHIL 3511 Existentialism** 3 cr.  
Prerequisite: three hours of philosophy or consent of department. A careful examination of the views of Kierkegaard, Nietzsche, Heidegger, Sartre, and other thinkers associated with one of the 20th Century's most widely influential philosophies.
- PHIL 3595 Academic Year Abroad Special Topics in Philosophy** 3 cr.  
This course is only offered through UNO's Academic Year Abroad (AYA) in Innsbruck, Austria and can be repeated once for credit.
- PHIL 4027 Philosophy of Heidegger** 3 cr.  
This course will examine fundamental issues in the philosophy of Martin Heidegger, the influential 20th century German thinker whose 1927 book, *Being and Time*, laid the foundation for existentialism, and whose later work helped shape "postmodernist" discourse. The nature of his thought, and the basis of his multifaceted influence on metaphysics, phenomenology, aesthetics, literary theory, religion, social science, and other areas will be examined.
- PHIL 4027/G Philosophy of Heidegger** 3 cr.  
This course will examine fundamental issues in the philosophy of Martin Heidegger, the influential 20th century German thinker whose 1927 book, *Being and Time*, laid the foundation for existentialism, and whose later work helped shape "postmodernist" discourse. The nature of his thought, and the basis of his multifaceted influence on metaphysics, phenomenology, aesthetics, literary theory, religion, social science, and other areas will be examined.
- PHIL 4200/G Health Promotion Ethics** 3 cr.  
(EDHS 4200 and PHIL 4200 are cross-listed) This course will examine ethical issues arising in the professional and social-policy aspects of health promotion. Coverage includes such topics as: "fact," "value," and "knowledge" regarding health; moral codes in health promotion; concepts of efficiency, fairness, autonomy, and privacy in health contexts; and special moral problems concerning sex, drugs, food, pain, aging, death, health on the job, and generational equality.
- PHIL 4205/G Environmental Ethics** 3 cr.  
A philosophical study of theories and problems concerning the moral relationship between human beings and the non-human world, including animals and ecosystems.
- PHYS 1001 Introduction to Physics** 3 cr.  
Introductory physics courses for non-science majors. May be taken without regard to order. PHYS 1001: Force, motion, properties of matter and heat. PHYS 1002: Sound, electricity, magnetism, light, nuclear physics and relativity. Does not constitute degree credit for any major in the College of Sciences.
- PHYS 1002 Introduction to Physics** 3 cr.  
Introductory physics courses for non-science majors. May be taken without regard to order. PHYS 1001: Force, motion, properties of matter and heat. PHYS 1002: Sound, electricity, magnetism, light, nuclear physics and relativity. Does not constitute degree credit for any major in the College of Sciences.
- PHYS 1003 Introductory Physics Laboratory** 1 cr.  
Laboratory to accompany PHYS 1001 and PHYS 1002 respectively. Prerequisite: credit or registration in PHYS 1001 and 1002.
- PHYS 1004 Introductory Physics Laboratory** 1 cr.  
Laboratory to accompany PHYS 1001 and PHYS 1002 respectively. Prerequisite: credit or registration in PHYS 1001 and 1002.
- PHYS 1005 Introductory Astronomy** 3 cr.  
Introductory course in astronomy. PHYS 1005 treats naked-eye astronomy, the history and development of astronomy, and the comparative planetology of the solar system. PHYS 1006 introduces the astronomy of the Sun and stars, galaxies and cosmology. May be taken without regard to order.
- PHYS 1006 Introductory Astronomy** 3 cr.  
Introductory course in astronomy. PHYS 1005 treats naked-eye astronomy, the history and development of astronomy, and the comparative planetology of the solar system. Physics 1006 introduces the astronomy of the Sun and stars, galaxies and cosmology. May be taken without regard to order.
- PHYS 1007 Introductory Astronomy Laboratory** 1 cr.  
Prerequisite: credit or registration in PHYS 1005 and 1006 respectively. A two-hour night laboratory to accompany PHYS 1005 and 1006.
- PHYS 1008 Introductory Astronomy Laboratory** 1 cr.  
Prerequisite: credit or registration in PHYS 1005 and 1006 respectively. A two-hour night time laboratory to accompany PHYS 1005 and 1006.
- PHYS 1010 Physics of Music** 3 cr.  
Prerequisite: high school algebra. The physical and acoustical background of music, the reception and hearing of musical sound, the acoustics of rooms, the production of musical sounds and musical instruments.
- PHYS 1011 Physics of Music Laboratory** 1 cr.  
Prerequisite: credit or registration in PHYS 1010. A two-hour laboratory to accompany PHYS 1010.
- PHYS 1020 Energy and Environmental Physics** 3 cr.  
Introduction to energy, energy supply, and demand, exponential growth, electric energy, basic thermodynamic limitations, fossil fuels, nuclear power, future energy sources, transportation, pollution, resources, recycling.
- PHYS 1030 Physics: An Overview** 3 cr.  
A descriptive introduction to the basic concepts of the major branches of Physics and their application in modern society. Examples will be taken from current physics-based research in a variety of fields.
- PHYS 1031 General Physics I** 3 cr.  
Offered each semester. Prerequisite: credit in MATH 1116 or MATH 1126. A study of classical mechanics, fluids and heat. Credit cannot be earned for both Physics 1031 and 1061. The required one hour

## Physics

General prerequisites: to register in any physics course a student must be eligible to enroll in Mathematics 1115 or 1125 or have earned credit in any college-level mathematics course.

**PHYS 1001 Introduction to Physics** 3 cr.

- per week recitation must be scheduled for the selected Physics 1031 section.
- PHYS 1032 General Physics II** 3 cr.  
Offered each semester. Prerequisite: Physics 1031 with a grade of C or better. A continuation of Physics 1031 covering sound, electricity and magnetism, optics, and modern physics. Credit cannot be earned for both Physics 1032 and Physics 1062.
- PHYS 1033 General Physics Laboratory** 1 cr.  
Offered each semester. Prerequisite: credit or registration in PHYS 1031. A two-hour laboratory to accompany PHYS 1031. Credit cannot be earned for both Physics 1033 and Physics 1063.
- PHYS 1034 General Physics Laboratory** 1 cr.  
Offered each semester. Prerequisite: credit or registration in PHYS 1032. A two-hour laboratory to accompany PHYS 1032. Credit cannot be earned for both Physics 1034 and Physics 1065.
- PHYS 1061 Physics for Science and Engineering I** 3 cr.  
Offered each semester. Prerequisites: credit or registration in MATH 2111 or 2107 or consent of department. A study of the fundamental concepts and theories of general physics, mechanics of particles, rigid bodies, fluids, and sound.
- PHYS 1062 Physics for Science and Engineering II** 3 cr.  
Offered each semester. Prerequisites: PHYS 1061 with a C or better and credit or registration in MATH 2112 or 2108. A continuation of PHYS 1061. Heat, electricity, and magnetism.
- PHYS 1063 Physics Laboratory for Science and Engineering** 1 cr.  
Offered each semester. Prerequisite: credit or registration in PHYS 1061. Laboratory course to accompany PHYS 1061. Two hours of laboratory.
- PHYS 1065 Physics Laboratory for Science and Engineering** 1 cr.  
Offered each semester. Prerequisite: credit or registration in PHYS 1062. Laboratory course to accompany PHYS 1062. Two hours of laboratory.
- PHYS 2005 Intermediate Astronomy: Cosmology** 3 cr.  
Prerequisite: PHYS 1005 1006 and MATH 1111. An intermediate level astronomy course on the nature, origin, evolution, and probable fate of the universe, including the Big Bang theory and modern controversies in cosmology.
- PHYS 2064 Physics for Science and Engineering** 3 cr.  
Offered each semester. Prerequisites: PHYS 1062 and 1063. The last course in a three-semester sequence. Light and modern physics.
- PHYS 2191 Special Problems in Physics** 1 cr. min./3 cr. max.  
Offered each semester. Prerequisite: consent of the department. Amount of credit to be stated at registration. Individual reading conferences and/or laboratory work on problem or problems in physics. Section number will correspond with the credit to be earned. A student will be allowed no more than a total of six credits in Special Problems ( PHYS 4191 3191 and 2191) .
- PHYS 3001 Principles of Bio-Medical Instrumentation** 2 cr.  
Prerequisites: Physics 1032 and 1034. An introduction to the physical principles necessary for understanding the operation of equipment used by medical technicians and certain biology researchers. One hour of lecture and two hours of laboratory each week.
- PHYS 3191 Special Problems in Physics** 1 cr. min./3 cr. max.  
Offered each semester. Prerequisite: consent of the department. Amount of credit to be stated at registration. Individual reading conferences and/or laboratory work on problem or problems in physics. Section number will correspond with the credit to be earned. A student will be allowed no more than a total of six credits in Special Problems ( PHYS 4191 3191 and 2191) .
- PHYS 3198 Undergraduate Seminar** 1 cr.  
Offered each semester. A group comprised of representatives of the physics faculty and undergraduate physics majors which meets at regular intervals during the semester to discuss selected topics in physics. Physics majors must formally register and present an approved paper in order to satisfy credit requirements. May be repeated for credit.
- PHYS 3261 Geophysical Field Methods** 6 cr.  
(PHYS 3261 and EES 4150 are cross-listed) Prerequisites: PHYS 2064 and consent of instructor. Basic introduction to the application of geophysical field techniques. Includes collecting, processing, and interpreting gravity, magnetic, and seismic data. Practical experience in the conduct of geophysical surveys, operation of equipment, data reduction, and simple interpretation. Preparation of geophysical reports in the style normally used for published papers. Thirty-five hours of classroom work and field measurements per week during the summer session.
- PHYS 3301 Intermediate Mechanics** 3 cr.  
Prerequisites: PHYS 1062 and MATH 2115. Application of the fundamental laws of mechanics to particles and rigid bodies.
- PHYS 4004/G Contemporary Physics** 3 cr.  
Prerequisite: PHYS 1032 or consent of department. A survey of contemporary topics which may include nuclear power, solar energy, Einstein's relativity and cosmology, energy and matter in the quantum picture. (Physics majors can not use this course as a physics elective.)
- PHYS 4010/G Physics of Music 2: Acoustics, Music and Electronics** 3 cr.  
Prerequisites: PHYS 1010 or 1032 or 1062 or consent of department. Senior/graduate course for musicians, scientists, and engineers interested in sound recording and reproduction, environmental acoustics, and electronic music. Topics include room and auditorium acoustics, environmental noise and noise control, audio recording and reproduction, audio signal processing and electronic music.
- PHYS 4014/G Physics of Music 2 Laboratory: Acoustics, Music and Electronics** 1 cr.  
Co-requisites: PHYS 4010 or consent of department. A two-hour laboratory to accompany PHYS 4010, with experiments to illustrate and investigate topics from the lecture course.
- PHYS 4091/G Special Topics in Physics and Physical Science for Teachers** 1 cr. min./6 cr. max.  
Prerequisite: consent of department. The content and format of this course may be varied from semester to semester. The topics covered will generally relate to background material (rather than methodology) which is in the areas of physics or physical science and of particular interest to precollege teachers. Amount of credit to be stated at time of registration; may be repeated for no more than a total of six hours credit. This course may not be used for degree credit by students in the College of Sciences except those enrolled in the M.A. in science teaching program.
- PHYS 4150/G Interfacing Microprocessors with Scientific Apparatus** 3 cr.  
Prerequisite: Physics 1034 or 1065 or consent of department. An introduction to digital circuits and microprocessors with emphasis on interfacing microprocessors with scientific apparatus for experiment control, data acquisition, and storage. One-and-one-half hours of lecture and two-and-one-half hours of laboratory per week.

- PHYS 4160/G Advanced Laboratory** 3 cr.  
Prerequisite: Physics 4150 or consent of department. Four hours of laboratory and one hour of lecture each week. Selected experiments in several branches of physics with special emphasis on the control of selected experiments by microprocessors. Fundamentals of AC and DC circuits.
- PHYS 4191/G Special Problems in Physics** 1 cr. min./3 cr. max.
- PHYS 4194 Senior Honors Thesis** 1 cr. min./6 cr. max.  
Prerequisite: consent of director of the Honors Program. A candidate for a degree with honors in Physics must complete a total of six credit hours culminating in the presentation of an acceptable thesis and successful defense of the thesis during an oral examination to be conducted by the student's honors committee. (See requirements for graduation with honors.) The six credit hours may be taken in any combination, but only in conjunction with supervised work on the thesis. Registration for this course requires the approval of the Director of the Honors Program. Interim grades will be S or U. This course may not be taken for graduate credit.
- PHYS 4195/G Topics in Physics** 1 cr. min./3 cr. max.  
Prerequisite: consent of department. The content of this course will be varied from semester to semester. The topics will be divided into the following categories: (4195) classical, (4196) modern, (4197) current topics, (4198) geophysics, and no more than a total of six semester hours credit will be allowed toward a B.S. degree. Section number will correspond with credit to be earned.
- PHYS 4196/G Special Topics in Physics** 1 cr. min./3 cr. max.  
Prerequisite: consent of department. The content of this course will be varied from semester to semester. The topics will be divided into the following categories: (4195) classical, (4196) modern, (4197) current topics, (4198) geophysics, and no more than a total of six semester hours credit will be allowed toward a B.S. degree. Section number will correspond with credit to be earned.
- PHYS 4197/G Special Topics in Physics** 1 cr. min./3 cr. max.  
Prerequisite: consent of department. The content of this course will be varied from semester to semester. The topics will be divided into the following categories: (4195) classical, (4196) modern, (4197) current topics, (4198) geophysics, and no more than a total of six semester hours credit will be allowed toward a B.S. degree. Section number will correspond with credit to be earned.
- PHYS 4198/G Special Topics in Physics** 1 cr. min./3 cr. max.  
Prerequisite: consent of department. The content of this course will be varied from semester to semester. The topics will be divided into the following categories: (4195) classical, (4196) modern, (4197) current topics, (4198) geophysics, and no more than a total of six semester hours credit will be allowed toward a B.S. degree. Section number will correspond with credit to be earned.
- PHYS 4201/G Introduction to Mathematical Physics** 3 cr.  
Prerequisite: consent of department. An introduction to the mathematical treatment of selected physical problems.
- PHYS 4202/G Introduction to Mathematical Physics** 3 cr.  
Prerequisite: consent of department. An introduction to the mathematical treatment of selected physical problems.
- PHYS 4203/G Introduction to Applied Group Theory** 3 cr.  
Prerequisite: PHYS 4401 or consent of department. The effects of symmetry in physical laws with examples from atomic, molecular, and solid state physics.
- PHYS 4205/G Physical Applications of the Fourier Transform** 3 cr.  
Prerequisites: Mathematics 2115 and Physics 1062 or consent of department. Physical applications of the Fourier transform and series, convolution, and basic theorems; sampling and data treatment; and introduction to Fourier methods in geophysics and optics.
- PHYS 4211/G Introduction to Computational Physics** 3 cr.  
Prerequisites: credit in a computer programming course and PHYS 4501, or consent of department. An introduction to the computational treatment of physics problems in areas such as electromagnetic phenomena, acoustic wave propagation, scattering, atomic structure, and astrophysics.
- PHYS 4302 Advanced Mechanics** 3 cr.  
Prerequisite: PHYS 3301 or consent of department. Special relativity; variational techniques; Lagrangian and Hamiltonian formulations of classical mechanics.
- PHYS 4302/G Advanced Mechanics** 3 cr.  
Prerequisite: PHYS 3301 or consent of department. Special relativity; variational techniques; Lagrangian and Hamiltonian formulations of classical mechanics.
- PHYS 4322 Introduction to Acoustics** 3 cr.  
Prerequisites: Physics 2064 and Mathematics 2221, or consent of department. Fundamental principles of acoustics, emphasizing the physical concepts, derivations, and solutions of acoustic wave equations in bounded and unbounded fluids and solids. Reflection, refraction, and transmission; radiation characteristics of vibrating bodies. Acoustic wave guide theory, geometrical acoustics, and ray theory. Selected topics as time permits.
- PHYS 4322/G Introduction to Acoustics** 3 cr.  
Prerequisites: Physics 2064 and Mathematics 2221, or consent of department. Fundamental principles of acoustics, emphasizing the physical concepts, derivations, and solutions of acoustic wave equations in bounded and unbounded fluids and solids. Reflection, refraction, and transmission; radiation characteristics of vibrating bodies. Acoustic wave guide theory, geometrical acoustics, and ray theory. Selected topics as time permits.
- PHYS 4381 Applied Seismic Data Acquisition and Processing** 3 cr.  
(PHYS 4381 and EES 4152 are cross-listed) Prerequisites: PHYS 4205, EES 4110 and MATH 2221 or consent of department. Basic acoustics and ray tracing; seismic data acquisition; CDP; noise analyses and arrays; physics of acoustic sources, measuring and recording instruments; demultiplexing; NMO and velocity analysis; statics; and introduction to deconvolution, filtering, and migration. Use of fundamental seismic data processing computer programs, graphics, and displays of seismic data; seismic data processing of field data. Two hours of lecture and two hours of computer laboratory per week.
- PHYS 4381/G Applied Seismic Data Acquisition and Processing** 3 cr.  
(PHYS 4381 and EES 4152 are cross-listed) Prerequisites: PHYS 4205, EES 4110 and MATH 2221 or consent of department. Basic acoustics and ray tracing; seismic data acquisition; CDP; noise analyses and arrays; physics of acoustic sources, measuring and recording instruments; demultiplexing; NMO and velocity analysis; statics; and introduction to deconvolution, filtering, and migration. Use of fundamental seismic data processing computer programs, graphics, and displays of seismic data; seismic data processing of field data. Two hours of lecture and two hours of computer laboratory per week.
- PHYS 4401/G Introduction to Quantum Mechanics** 3 cr.  
Prerequisites: PHYS 2064 and either MATH 2115 or MATH 2221 or consent of department. An introduction to the basic concepts in quantum mechanics.

**PHYS 4402/G Quantum Physics of Atoms, Solids and Nuclei** 3 cr.  
Prerequisites: PHYS 4401 or consent of department. Quantum theory of the electronic structure of atoms, diatomic molecules, solids, and nuclei. Topics include perturbation theory applied to multi-electron atoms, L-S coupling, molecular orbitals, band theory of solids, and shell model of nuclei.

**PHYS 4501/G Electricity and Magnetism** 3 cr.  
Prerequisites: PHYS 1062 and MATH 2115. Fundamentals of electricity and magnetism.

**PHYS 4503/G Electricity and Magnetism** 3 cr.  
Prerequisite: PHYS 4501. Time-dependent electric and magnetic fields. Solutions of Maxwell's equations and electromagnetic radiation.

**PHYS 4505/G Introduction to Plasma Physics** 3 cr.  
Prerequisites: Physics 4501 and Mathematics 2221 or consent of department. An introduction to plasma physics covering particle orbit theory, hydromagnetics, shock waves, and plasma radiation.

**PHYS 4507/G Gravity and Magnetics** 3 cr.  
(EES 4120 and PHYS 4507 are cross-listed) Prerequisites: EES 4110, PHYS 3301 or 4501, MATH 2221, or consent of department. Fundamentals of scalar potentials and analysis of vector fields as applied to geophysical problems in gravity and magnetism. Analytic properties of the earth's gravitational and magnetic fields in space and time. Modeling and interpretation of gravity and magnetic anomalies.

**PHYS 4510/G Electronic Instrumentation for Scientists** 3 cr.  
Prerequisite: Physics 4150 or consent of department. The principles of electronic instrumentation with emphasis placed on semiconductor devices and electronic instruments which find extensive applications in laboratories in physics, biology, chemistry, earth sciences, and psychology. Specific topics covered will include the following: semiconductor diodes and transistors, basic transistor amplifier circuits, current and voltage amplifiers, signal generators, operational amplifiers, analog-to-digital and digital-to-analog converters, pulse generators and counters, radiation transducers and integrated circuits.

**PHYS 4521/G Modern Optics** 3 cr.  
Prerequisites: PHYS 2064 and MATH 2115 or consent of department. The fundamental physical principles of optics and optical instruments, and topics selected from lasers, optical waveguides and thin films, and properties of optical materials.

**PHYS 4601/G Thermodynamics & Statistical Mechanics** 3 cr.  
Prerequisites: PHYS 2064 and MATH 2115 or consent of the Department. A study of theory and experiments in the fields of thermodynamics and statistical mechanics.

**PHYS 4603/G Introduction to Low Temperature Physics** 3 cr.  
Prerequisite: PHYS 4601 or consent of department. A study of the macroscopic theory of superfluid helium, methods of producing low temperatures, and such topics as magnetic effects, adiabatic demagnetization and superconductivity.

**PHYS 4801/G Nuclear and Reactor Physics** 3 cr.  
Prerequisites: PHYS 2064 and consent of department. A survey of nuclear forces and models, radioactivity, nuclear reactions, apparatus for detection of particles and radiation of nuclear origin (scintillation counters, solid-state detectors, coincidence electronics, etc.), fission and fusion reactors, heat exchangers, radiation damage, reactor shielding, nuclear fuel fabrication and reprocessing, options for disposal of nuclear wastes.

**PHYS 4901/G Condensed Matter and Materials Physics** 3 cr.  
Prerequisite: PHYS 4401 or consent of department. Properties of the crystalline state. Free electron and band theories of metals, insulators, and semiconductors. Magnetism, superconductivity, and superfluidity.

**PHYS 6005 Laboratory Techniques in Physics for Teachers I & II** 3 cr.  
Prerequisite: PHYS 4004 or consent of department. A course to aid science teachers to deepen their knowledge of fundamental physics by designing and carrying out demonstrations and laboratory techniques for presenting phenomena. The first semester will deal primarily with mechanics, astronomy, and thermal physics. The second semester will deal primarily with light, electromagnetism, modern physics, and energy sources. (Need not be taken in sequence.) Two hours of lecture and two hours of laboratory.

**PHYS 6006 Laboratory Techniques in Physics for Teachers I & II** 3 cr.  
Prerequisite: PHYS 4004 or consent of department. A course to aid science teachers to deepen their knowledge of fundamental physics by designing and carrying out demonstrations and laboratory techniques for presenting phenomena. The first semester will deal primarily with mechanics, astronomy, and thermal physics. The second semester will deal primarily with light, electromagnetism, modern physics, and energy sources. (Need not be taken in sequence.) Two hours of lecture and two hours of laboratory.

**PHYS 6191 Selected Topics in Physics-Mathematical** 1 cr. min./6 cr. max.  
The content of this course will be varied from semester to semester. The topics covered are divided into the following categories: (6191) Mathematical Physics, (6192) Atomic and Molecular Physics, (6193) Nuclear and Elementary Particle Physics, (6194) Condensed Matter and Materials Physics, and (6195) Geophysics. The amount of credit a particular course carries will be stated at registration. A maximum of six credit hours may be accumulated by the student in any one category. No more than six hours total will be allowed toward an M.S. degree. Section number will correspond with credit to be earned.

**PHYS 6192 Selected Topics in Physics-Atomic & Molecular** 1 cr. min./6 cr. max.  
The content of this course will be varied from semester to semester. The topics covered are divided into the following categories: (6191) Mathematical Physics, (6192) Atomic and Molecular Physics, (6193) Nuclear and Elementary Particle Physics, (6194) Condensed Matter and Materials Physics, and (6195) Geophysics. The amount of credit a particular course carries will be stated at registration. A maximum of six credit hours may be accumulated by the student in any one category. No more than six hours total will be allowed toward an M.S. degree. Section number will correspond with credit to be earned.

**PHYS 6193 Selected Topics in Physics-Nuclear & Elementary Particle Physics** 1 cr. min./6 cr. max.  
The content of this course will be varied from semester to semester. The topics covered are divided into the following categories: (6191) Mathematical Physics, (6192) Atomic and Molecular Physics, (6193) Nuclear and Elementary Particle Physics, (6194) Condensed Matter and Materials Physics, and (6195) Geophysics. The amount of credit a particular course carries will be stated at registration. A maximum of six credit hours may be accumulated by the student in any one category. No more than six hours total will be allowed toward an M.S. degree. Section number will correspond with credit to be earned.

- PHYS 6194 Selected Topics in Physics-Solid State** 1 cr. min./6 cr. max.  
The content of this course will be varied from semester to semester. The topics covered are divided into the following categories: (6191) Mathematical Physics, (6192) Atomic and Molecular Physics, (6193) Nuclear and Elementary Particle Physics, (6194) Condensed Matter and Materials Physics, and (6195) Geophysics. The amount of credit a particular course carries will be stated at registration. A maximum of six credit hours may be accumulated by the student in any one category. No more than six hours total will be allowed toward an M.S. degree. Section number will correspond with credit to be earned.
- PHYS 6195 Selected Topics in Physics-Geophysics** 1 cr. min./6 cr. max.  
The content of this course will be varied from semester to semester. The topics covered are divided into the following categories: (6191) Mathematical Physics, (6192) Atomic and Molecular Physics, (6193) Nuclear and Elementary Particle Physics, (6194) Condensed Matter and Materials Physics, and (6195) Geophysics. The amount of credit a particular course carries will be stated at registration. A maximum of six credit hours may be accumulated by the student in any one category. No more than six hours total will be allowed toward an M.S. degree. Section number will correspond with credit to be earned.
- PHYS 6198 Seminar** 1 cr.  
This course is offered each semester and meets weekly. May be repeated for credit.
- PHYS 6205 Digital Filtering and Image Processing** 3 cr.  
Prerequisite: PHYS 4205 or consent of department. The discrete Fourier transform and the fast Fourier transform in physical applications; noise characteristics and techniques of noise removal; one-dimensional image enhancement and restoration; two-dimensional image processing; and applications to seismic data, pictures, and other physical data.
- PHYS 6206 Image Restoration and Enhancement** 3 cr.  
Prerequisite: PHYS 6205 or consent of department. Restoration and enhancement of one- and two-dimensional physical data by noise removal, deconvolution, and other techniques of digital filtering; the Wiener filter, maximum entropy, and maximum likelihood; iterative techniques; spectral windows; and filters for seismic data and images.
- PHYS 6207 Digital Filtering and Spectral Analysis I** 3 cr.  
Prerequisites: PHYS 6206 and a background in matrix algebra (such as MATH 2511 or PHYS 4201) or consent of department. Brief review of transform and random process theory, review of matrix algebra, classical spectral estimation, parametric models for random processes, autoregressive spectrum properties and estimation ARMA spectral estimation, Prony method, minimum variance spectral estimation, eigenvector approaches, multichannel and two-dimensional spectral estimation.
- PHYS 6208 Digital Filtering and Spectral Analysis II** 3 cr.  
Prerequisites: PHYS 6206 and a background in matrix algebra (such as MATH 2511 or PHYS 4201) or consent of department. Brief review of transform and random process theory, review of matrix algebra, classical spectral estimation, parametric models for random processes, autoregressive spectrum properties and estimation, ARMA spectral estimation, Prony method, minimum variance spectral estimation, eigenvector approaches, multichannel and two-dimensional spectral estimation.
- PHYS 6209 Introduction to Wavelet Transforms** 3 cr.  
Prerequisites: PHYS 2064 or PHYS 4205 or consent of instructor. Low and high pass filters and filter banks; down and up sampling; dilation and wavelet equations; matrix representation; maxflat filters; wavelet bases and frames; windows; wavelet transforms, perfect reconstruction; modulation matrices; polyphase for vectors, filters, and filter banks; orthonormality and Condition O; accuracy and Condition Ap; multiresolution; recursion and cascades; dilation equation in the frequency domain; biorthogonal wavelets; eigenvalues and eigenvectors and Condition E; smoothness, splines, and wavelets; multifilters and multiwavelets; physical applications.
- PHYS 6210 Wavelet Transforms Applications** 3 cr.  
Prerequisites: PHYS 6209 or consent of instructor. Distortions and artifacts; Moments and smoothness; Daubechies wavelets; Coiflets; biorthogonal wavelets; Cohen-Daubechies-Feauveau wavelets; FBI fingerprints; Battle-LeMarie wavelets; spline wavelets; Sinc wavelets; multiwavelets; chirplets; curvelettes; Denoising; Image compression; audio, speech, and music compression; Vector map compression; Edge detection; Shrikage; Synthetic aperture radar; Turbulent flow around Antarctica; Geophysical inversion and migration; Seismic data; Hurricanes; Denoising in underwater acoustics; Classification of underwater mammals; Identification of sperm whales; Differential equations; Random vibration analysis; Medical applications, Feature detection.
- PHYS 6301 Classical Mechanics** 3 cr.  
Prerequisite: Physics 3301 or consent of department. Variational formulation of mechanics due to Lagrange and Hamilton. Kinematics and dynamics of particles and rigid bodies, classical fields, and selected topics.
- PHYS 6302 Wave Propagation** 3 cr.  
Prerequisites: PHYS 4322 and 4201 or consent of department. Wave propagation in continuous media with emphasis on geophysical applications, normal mode theory, reflection and refraction, diffraction, dispersion.
- PHYS 6321 Acoustics I** 3 cr.  
Prerequisites: PHYS 4201 and 4322 or consent of department. Wave theory of sound: reflection, transmission, and excitation of plane waves; sources of acoustic radiation, geometrical acoustics, and ray theory; scattering and diffraction; acoustic waveguides and normal mode propagation; computational techniques; dissipative processes and nonlinear effects; selected topics of interest as time permits.
- PHYS 6322 Acoustics II** 3 cr.  
Prerequisites: Physics 4201 and 4322 or consent of department. Wave theory of sound: reflection, transmission, and excitation of plane waves; sources of acoustic radiation, geometrical acoustics, and ray theory; scattering and diffraction; acoustic waveguides and normal mode propagation; computational techniques; dissipative processes and nonlinear effects; selected topics of interest as time permits.
- PHYS 6325 Underwater Acoustic System Analysis** 3 cr.  
Prerequisites: Physics 4322 and Physics 4205 or consent of department. Underwater acoustics, Fourier methods, noise, beamforming, target characteristics, statistical basis for performance analysis, examples of acoustic system analysis. Three hours of lecture per week.
- PHYS 6331 Principles of Ocean Physics I** 3 cr.  
Prerequisites: PHYS 4501 and PHYS 3301 or Mechanical Engineering 2750 or consent of department. First Semester: an introduction to physical oceanography, including forces, hydrodynamics, thermodynamics, geophysical fluid dynamics, waves, tides, and currents. Second Semester: a study of the physics of the ocean, emphasizing underwater acoustics, electromagnetics in the ocean, and optics of the sea.

**PHYS 6332 Principles of Ocean Physics II** 3 cr.  
Prerequisites: PHYS 4501 and PHYS 3301 or Mechanical Engineering 2750 or consent of department. First Semester: an introduction to physical oceanography, including forces, hydrodynamics, thermodynamics, geophysical fluid dynamics, waves, tides, and currents. Second Semester: a study of the physics of the ocean, emphasizing underwater acoustics, electromagnetics in the ocean, and optics of the sea.

**PHYS 6381 Advanced Seismic Techniques** 3 cr.  
Prerequisites: Physics/Geophysics 4381 or consent of department. Velocity analysis, deconvolution and filtering, tau-p slant stacking, velocity filters, 3-D techniques, vertical seismic profiles, migration, forward modeling and synthetics, inverse theories and modeling, interpretation, use and development of seismic data processing computer programs, including graphics and displays. Two hours of lecture and two hours of computer laboratory per week.

**PHYS 6401 Quantum Mechanics I** 3 cr.  
Prerequisites: advanced calculus and consent of department. The conceptual basis of quantum mechanics and its relation to classical mechanics. Quantum states and energies are determined for simple systems with emphasis on the use of symmetries and other general features of the systems.

**PHYS 6402 Quantum Mechanics II** 3 cr.  
Prerequisite: PHYS 6401. Application of the quantum mechanics to problems in atomic, solid state, and nuclear physics, with an introduction to approximation methods.

**PHYS 6501 Electromagnetic Theory I** 3 cr.  
Prerequisite: PHYS 4201 and 6301 or consent of department. Electrostatics, magnetostatics, and Maxwell's equations.

**PHYS 6502 Electromagnetic Theory II** 3 cr.  
Prerequisite: PHYS 6501 or consent of department. Electromagnetic radiation, special relativity, and diffraction theory.

**PHYS 6621 Statistical Mechanics** 3 cr.  
Offered as needed. A survey of the principles of classical and quantum statistics with application to special problems.

**PHYS 6701 Atomic Theory** 3 cr.  
Prerequisite: PHYS 6401 or consent of department. Quantum theory of atomic structure and spectra, theory of radiation, selection rules and quantum theory of elastic and inelastic atomic collisions.

**PHYS 6721 Molecular Structure** 3 cr.  
Prerequisite: PHYS 6401 or consent of department. Classification of molecular spectra, rotation, and vibration of the diatomic molecule, finer details of infrared and Raman spectra. Rotation and vibration of polyatomic molecules and electronic states.

**PHYS 6901 Condensed Matter and Materials Physics** 3 cr.  
Prerequisites: PHYS 4901 and 6401 or consent of department. A detailed discussion of quantum theory and experiments in condensed matter and materials physics with emphasis on current research problems.

**PHYS 7000 Thesis Research** 1 cr. min./9 cr. max.  
Offered each semester. To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.

**PHYS 7025 Research Methods in Physics** 1 cr. min./9 cr. max.  
May be repeated for credit. Maximum credit of six hours for an M.S. degree. A study of experimental and theoretical research methods the design and execution of experiments and their analyses. Section number will correspond with credit to be earned.

**PHYS 7040 Examination or Thesis Only** 0 cr.  
Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the

Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

**PHYS 7050 Dissertation Research** 1 cr. min./12 cr. max.  
To be repeated for credit until dissertation is accepted.

## Political Science

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All 6000-level courses require consent of the department.

**POLI 1000 Fundamental Issues of Politics** 3 cr.  
Offered each semester. An introduction to the central questions at issue in politics with special emphasis on their significance for the American scene.

**POLI 1010 Contemporary Issues of Politics** 3 cr.  
An examination of the current issues and problems of national and international politics.

**POLI 2151 American Government** 3 cr.  
Offered each semester. A survey of the principles, structure, processes, and functions of American government with emphasis on the national government.

**POLI 2156 Government of Louisiana** 3 cr.  
A general survey of state and local government and politics in Louisiana.

**POLI 2157 Public Policy** 3 cr.  
A general survey of public policies in the United States and other political systems emphasizing their effect on domestic politics.

**POLI 2158 Issues in Black Politics** 3 cr.  
A survey of black political movements in the United States with emphasis on contemporary problems. Special attention will be given to black ideologies, styles of political participation, and leadership development.

**POLI 2200 Judicial Process** 3 cr.  
A study of legal systems with emphasis upon the role of American courts and judges in administering justice and making law.

**POLI 2450 Current Issues in Criminal Justice** 3 cr.  
A survey of the criminal justice system from arrest to appeal with emphasis on major problems and dilemmas, such as capital punishment, plea bargaining, search and seizure, legalization of drugs, and other contemporary issues. Special attention will be given to court decisions defining the rights of defendants and the practical realities of criminal law in Louisiana.

**POLI 2500 Introduction to Political Theory** 3 cr.  
A survey of theories of the nature of government and the relationships between the individual and the political order, drawing upon contemporary and classical sources.

**POLI 2600 Introduction to Comparative Government** 3 cr.  
A survey of the political institutions of the major democratic powers of Europe and of Russia.

**POLI 2700 Introduction to World Politics** 3 cr.  
A general survey of the basic principles of world politics with emphasis on the international relations of the United States.

**POLI 2900 Methods of Political Research** 3 cr.  
Offered each semester. Prerequisites: 30 credit hours and POLI 2151, 2600 and 2700. A survey of the principal methods of political research, including conceptualization and hypothesis testing. The course will introduce computing on personal computers and mainframes as a tool of contemporary political research; students will be familiarized with operating systems, text editing, and data analysis.

- POLI 2990 Independent Reading and Research in Political Science** 1 cr.  
Prerequisite: consent of department. A readings course dealing with scope and methods of political science.
- POLI 2993 Special Topics In Political Science** 3 cr.  
Prerequisite: consent of department. Topic may vary from semester to semester. May be repeated once for credit.
- POLI 3595 Academic Year Abroad: Special Topics in Political Science** 3 cr.  
This course is only offered through UNO's Academic Year Abroad (AYA) in Innsbruck, Austria and can be repeated once for credit.
- POLI 3605 Political Science and Practical Politics** 3 cr.  
The course includes classroom discussions on selected readings, visiting speakers experienced in practical politics and a research project in the area of the practical politics, involving interviewing, sampling, and other techniques of empirical research.
- POLI 3680 Politics and the Cinema** 3 cr.  
A critical examination of the relationships between cinema and politics with attention to the role of cinema in the transmission of political information and ideas and the impact of the political decisions on the form and content of cinema.
- POLI 3900 Polimetrics** 3 cr.  
Prerequisites: POLI 2900 and MATH 1115 or 1125 and 1140. Introduction to the application and utility of scientific and mathematical methodology in the analysis of political phenomena. Special attention is given to the development of concepts generalizations and explanatory themes within political science as well as the use of various mathematical measurements of political phenomena and behavior.
- POLI 3995 Independent Readings in Political Science** 1 cr. min./3 cr. max.  
Prerequisite: consent of department and an overall grade-point average of 3.2. Amount of credit to be determined at the time of registration. Section number will correspond with credit to be earned. This course may be repeated for a total of six credit hours. A readings course dealing with the scope and method of political science, this course is designed for superior advanced undergraduates. Political Science courses 3995 and 3998 may not be taken, either singly or jointly, for more than a total of nine credit hours. Political Science courses 3995, 3998, 4990, and 4991 may not be taken, either singly or jointly, for more than a total of 12 credit hours.
- POLI 3998 Internship in Political Science** 3 cr.  
Prerequisite: consent of instructor and grade-point averages of 3.0 overall and 3.2 in political science. Each semester the department makes available a limited number of internships with the city of New Orleans and other governmental agencies in the metropolitan area as well as in Washington, D.C. Internships provide an opportunity to learn about government from the perspective of the participant. Interns usually work 8 hours a week during a Fall or Spring semester, at times mutually agreeable to the individual and the agency. In addition, students must attend discussion sections on campus. This course may be repeated once for credit for a total of six hours. Political science courses 3995 and 3998 may not be taken, either singly or jointly, for more than a total of nine credit hours. Political Science courses 3995, 3998, 4990, and 4991 may not be taken, either singly or jointly, for more than a total of 12 credit hours.
- POLI 4170/G The Politics of Public Policy** 3 cr.  
An examination of the American public policy process and policy theory, covering the major concepts, controversies, and states of policy making as well as policy content.
- POLI 4210/G Politics of Metropolitan Areas** 3 cr.  
An examination of the growth and problems of metropolitan areas, with special emphasis on the political fragmentation and integration of metropolitan governments.
- POLI 4310/G U.S. State Politics** 3 cr.  
This course is designed to familiarize students with the roles and responsibilities of state governments and provide insight into the complex dynamics of state politics through a comparative approach.
- POLI 4410/G American Constitutional Law** 3 cr.  
Prerequisite: POLI 2200 or consent of department. A study of the law of the Constitution and the place of the Supreme Court in the American political system; critical examination of separation of powers, judicial review, federalism and federal powers.
- POLI 4420/G The American Constitution and Civil Liberties** 3 cr.  
Prerequisite: POLI 2200 or consent of department. An examination of the political relevance of major federal constitutional limitations, property rights, First Amendment freedoms, the rights of criminal defendants and ethnic minorities.
- POLI 4440/G Urban Judicial Process** 3 cr.  
Prerequisite: POLI 2200 or consent of department. A study of judicial processes involved in metropolitan development and in the application of environmental controls to urban areas.
- POLI 4530/G American Political Theory** 3 cr.  
A study of major American political ideas, including American conceptions of liberty, equality, and the role of government.
- POLI 4550/G Communist Political Thought** 3 cr.  
A study of the historical origins of communism in western and eastern Europe: an analysis of the classics from Marx to the present with emphasis on communist theory of state and law, democracy and federalism.
- POLI 4570/G Contemporary Political Theory** 3 cr.  
Examines selected fundamental problems by exploring the works of important representative theorists.
- POLI 4600/G Political Parties & Politics** 3 cr.  
A study of the political process in the United States with emphasis on political parties, pressure groups, and public opinion.
- POLI 4601/G Voters and Elections** 3 cr.  
A study of electoral behavior in the United States. Topics include determinants of the vote, election turnout, candidate images, issues and elections, economic conditions and voting, partisanship, and the media in elections.
- POLI 4621/G Public Opinion** 3 cr.  
An analysis of contemporary public opinion and communication as aspects of the political process, with emphasis upon opinion formation, manipulation, and the mass media.
- POLI 4630/G The American Presidency** 3 cr.  
Examines the constitutional and political development of the institutions, the selection process, executive decision-making, and relations with those inside and outside of government in making public policy.
- POLI 4640/G The Legislative Process** 3 cr.  
A general study of the legislative process in Congress with special attention to the role of interest groups, constituency, and party in the formation of public policy.

- POLI 4650/G Southern Politics** 3 cr.  
This course focuses on politics in the South, especially since the mid-twentieth century, emphasizing the following themes: race and politics; the impact of the civil rights movement; the evolution of party competition; and the influence of industrialization and urbanization.
- POLI 4653/G Political Socialization of American Blacks** 3 cr.  
A study of the processes and agents of political socialization. Although the mainstream American experience will be emphasized, socialization within subcultures in the United States and socialization to other systems will be included.
- POLI 4670/G Women and Politics** 3 cr.  
A study of feminist political thought, and of women's political movements, political issues, and political behavior and attitudes in the United States and in other countries.
- POLI 4696 Washington Center Internship** 3 cr. min./6 cr. max.  
The Washington, D.C. Internship Program is offered in cooperation with the Washington Center for Internships and Academic Seminars. Students of junior-level or higher standing and a grade-point average of 2.5 or better are eligible to participate in the Program. The program is conducted in Washington, D.C. and consists of an internship of four-and-a-half workdays per week, a three-hour course one night a week, and a major research paper. Participants can earn 12 credit hours during a fall or spring semester (nine hours in summer). Not for graduate credit.
- POLI 4697 Washington Center Special Topics** 3 cr.  
The Washington, D.C. Internship Program is offered in cooperation with the Washington Center for Internships and Academic Seminars. Students of junior-level or higher standing and a grade-point average of 2.5 or better are eligible to participate in the Program. The program is conducted in Washington, D.C. and consists of an internship of four-and-a-half workdays per week, a three-hour course one night a week, and a major research paper. Participants can earn 12 credit hours during a fall or spring semester (nine hours in summer). Not for graduate credit.
- POLI 4698 Washington Center Independent Research** 3 cr.  
The Washington, D.C. Internship Program is offered in cooperation with the Washington Center for Internships and Academic Seminars. Students of junior-level or higher standing and a grade-point average of 2.5 or better are eligible to participate in the Program. The program is conducted in Washington, D.C. and consists of an internship of four-and-a-half workdays per week, a three-hour course one night a week, and a major research paper. Participants can earn 12 credit hours during a fall or spring semester (nine hours in summer). Not for graduate credit.
- POLI 4700/G Latin American Government and Politics** 3 cr.  
An analysis and survey of the governmental and political processes of Latin America and their contributions to modern government.
- POLI 4705/G US and Latin American Relations** 3 cr.  
A study of US relations with Latin America and the Caribbean Basin with an emphasis on current bilateral and regional political issues.
- POLI 4710/G Politics of the Developing Areas** 3 cr.  
An analysis of issues relevant to politics in the developing nations with emphasis on the relationship of politics to rapid economic and social change and evaluation of policies intended to promote development.
- POLI 4720/G African Politics** 3 cr.  
An overview of the political and economic challenges faced by African countries, the range of responses adopted, and the role of politics and the state in shaping both the choice of responses and their effectiveness.
- POLI 4730/G Environmental Politics in the Developing World** 3 cr.  
A survey of interactions between development strategies and the environment. Topics include the environmental ramifications of large development projects, different systems of property rights, decentralization, international debt, and foreign aid in the context of forests, rivers, rangeland, wildlife, and groundwater. Examples are drawn from throughout the developing world.
- POLI 4750/G Russian Politics** 3 cr.  
A study of the former Soviet Union and the contemporary political systems of Russia and the other USSR successor states with emphasis upon political culture, political socialization and recruitment, channels of communication, and organization and functioning of governments and political parties.
- POLI 4770/G Modern Political Systems** 3 cr.  
A comparative analysis of selected institutional and functional problems of both modern democratic and modern authoritarian political systems.
- POLI 4780/G Comparative Democratization** 3 cr.  
An exploration of the nature of democracy and the challenges of democratization drawing on experiences with democratization in Southern Europe, Latin America, Eastern Europe, and Africa. Experiences with and prospects for further democratization in other regions also are considered.
- POLI 4800/G Concepts and Patterns of International Politics** 3 cr.  
A systematic study of interaction between nation states, including a survey of the principal theories concerning international society.
- POLI 4820/G International Organization** 3 cr.  
A review of the origins and types of international organizations, both intergovernmental and international non-governmental, and their role in the contemporary international system. The challenges and theoretical implications of issues such as humanitarian aid, peacekeeping, and economic, social, and political development will be discussed.
- POLI 4840/G International Regionalism** 3 cr.  
An analysis and comparison of selected international regional organizations, the relationship between world and regional organizations, and economic and political integration.
- POLI 4850/G The Politics of International Economic Relations** 3 cr.  
An introduction to the field of international political economy focusing on four issues: the relationship between politics and markets, postwar developments in relations among advanced industrial societies, the relationship between advanced industrial and developing societies, and the impact of globalization on both developed and developing societies.
- POLI 4860/G Principles of International Law** 3 cr.  
A study of the development and theoretical foundations of international law; the problems of jurisdiction; treaty law; the law of peace, war, and neutrality; and the methods available for the settlement for international disputes.
- POLI 4870/G American Foreign Policy** 3 cr.  
A study of the national interest as the guiding consideration in the development of American foreign policy from the beginning to the present. The importance of the constitutional framework, presidential and congressional leadership, pressure groups and public opinion, the changing world environment and the American response to it, particularly in recent years.

- POLI 4880/G Comparative Foreign Policy** 3 cr.  
A comparative analysis of the determinants of foreign policy interactions between nation-states. The influence of governmental systems, legitimacy, size, levels of development, political culture, and leadership styles on foreign policy calculations and behavior.
- POLI 4885/G Issues in Conflict and Diplomacy** 3 cr.  
An examination of the interaction of conflict with diplomacy. Conflict and diplomacy are studied analytically and operationally in terms of their limitations and possibilities in advancing and/or defending states' interests
- POLI 4890/G Economic Statecraft** 3 cr.  
This course examines uses of economic statecraft in both US foreign policy and international relations. Topics include, but are not limited to, analyzing the choice of economic versus military or diplomatic coercion, achieving successful coercion without the use of military force, the moral limitations of economic sanctions, enhancing the credibility of a threat, and the importance of domestic institutions in targets and senders of sanctions.
- POLI 4900 Introduction to Techniques of Political Data Analysis** 3 cr.  
Prerequisite: POLI 2900 or consent of department. A beginning course in the analysis of political data. Students will be introduced to computer-assisted statistical analysis and will perform original research. Not for graduate credit.
- POLI 4910/G Political Polling** 3 cr.  
Prerequisite: POLI 2900 or consent of department. The process of conducting survey research: research design conceptualization, operationalization, interview-schedule design, sampling theory, drawing the sample, interviewer recruitment and training, supervision, coding, data processing, elaboration, analysis, presentation of results.
- POLI 4990/G Special Topics in Political Science** 3 cr.  
Topic may vary from semester to semester. Students may register for this course more than once to a maximum of nine hours. POLI 3995, 3998, 4990, and 4991 may not be taken, either singly or jointly, for more than a total of 12 credit hours.
- POLI 4991 Senior Honors Thesis** 3 cr.  
Prerequisites: consent of department and director of the Honors Program. Design and execution of an honors thesis. This course must be repeated once in order to graduate with honors in political science. Political Science courses 3995, 3998, 4990, and 4991 may not be taken either singly or jointly for more than a total of 12 credit hours. Not open to graduate students.
- POLI 4999 Political Science Overview** 1 cr.  
This is the capstone course, required of graduating political science majors, which provides an overview of the discipline. The course features weekly lectures by political science faculty along with class discussion. It is open to political science majors only, and it is not open to graduate students.
- POLI 6001 Introduction to Political Research** 3 cr.  
Introduction to the philosophy of science and research design. (Required of all graduate students.)
- POLI 6002 Methods of Political Research I** 3 cr.  
Techniques of data analysis with an emphasis on the general linear model and an introduction to maximum likelihood estimation. (Required for all graduate students.)
- POLI 6003 Methods of Political Research II** 3 cr.  
Prerequisites: POLI 6001 and POLI 6002. Techniques of data analysis with an emphasis on maximum likelihood estimation and time series. (Required of Ph.D. students.)
- POLI 6004 Advanced Methods of Political Research** 3 cr.  
Prerequisites: POLI 6001 and 6002. Theoretical implications and practical applications of advanced quantitative approaches to research. Specific topics will vary.
- POLI 6100 Theories of Public Policy** 3 cr.  
An examination of a variety of models of the public policy making process from agenda-setting through evaluation and feedback, with particular attention to explanations of policy stability and policy dynamics. Examined theories include rational choice, incrementalism, neo-institutionalism and path dependency, multiple streams, punctuated equilibrium, advocacy coalition framework, and political strategy, among others.
- POLI 6105 Bureaucratic Politics and Public Policy** 3 cr.  
Studies the internal operations of the bureaucracy, focusing on decision making and discretion. Particular attention is given to external relations and the role of bureaucracy in public policy making.
- POLI 6210 Seminar on Urban Political Systems** 3 cr.  
A review of the literature dealing with urban political processes. Topics will include metropolitan fragmentation and integration, intra-jurisdictional structural characteristics, urban policy makers, structures of community power, and the city within the federal system.
- POLI 6211 Seminar on Urban Political Analysis** 3 cr.  
Prerequisite: POLI 6210 or consent of department. A research-oriented seminar in urban political processes and policies. Inferential techniques employed in the analysis of urban phenomena will be examined, and students will be required to engage in original research endeavors. Non-Ph.D students may take either 6211 or 6212. Ph.D. students may take both 6211 and 6212.
- POLI 6212 Seminar on Urban Political Analysis** 3 cr.  
Prerequisite: POLI 6210 or consent of department. A research-oriented seminar in urban political processes and policies. Inferential techniques employed in the analysis of urban phenomena will be examined, and students will be required to engage in original research endeavors. Non-Ph.D students may take either 6211 or 6212. Ph.D. students may take both 6211 and 6212.
- POLI 6230 Seminar in Public Policy Formation** 3 cr.  
Emphasizes the policymaking process from agenda setting through impact and evaluation. It considers the roles of government structure and the external environment on how public policy is made and carried out.
- POLI 6240 Seminar in American Public Policy** 3 cr.  
Offers an in-depth look at substantive issues and issue networks in public policymaking.
- POLI 6245 Seminar in American Foreign Policy and National Security Affairs** 3 cr.  
This seminar will explore the theoretical concepts relating to the process of policy-making, the interface between domestic, foreign, and national security policies and politics, the role of bureaucratic politics and the thrust and content of American foreign and security policies.
- POLI 6250 Seminar in Comparative Urban Politics** 3 cr.  
Methodology in the study of comparative urban political systems, the new urbanism and traditional society, problems of planning and processes of communication, urbanism and political structures, political socialization in urban environments, urbanism and ecology, minority groups in the urban politics of various systems.
- POLI 6310 Seminar in State and Local Government** 3 cr.  
A seminar in state and local government with special emphasis on comparative state politics and political systems.

- POLI 6410 Seminar in Constitutional Law** 3 cr. governmental and nongovernmental actors, emphasizing public policy linkages.
- POLI 6420 Seminar on Appellate Courts** 3 cr.  
This seminar is designed to familiarize students with the literature on appellate courts (including the US Supreme Court, the US Court of Appeals, the state courts of last resort, and the Constitutional Courts of other countries). It will cover decision-making, judicial selection, the effects of public opinion on courts and the effect of courts on public opinion, impact and compliance, and interest-group influence. The courts will be studied as political institutions and policymakers peopled by political actors as opposed to the common view that they are formal, legal, and nonpolitical entities.
- POLI 6430 Seminar on Trial Courts** 3 cr.  
A seminar dealing with the literature on the scientific study of lower courts and criminal justice.
- POLI 6450 Seminar in Administrative Law** 3 cr.
- POLI 6510 Seminar in Political Theory** 3 cr.  
Seminar in Political Theory. May be repeated once for credit with consent of the Department.
- POLI 6570 Seminar in Contemporary Political Theory** 3 cr.  
Seminar in Contemporary Political Theory. May be repeated once for credit with consent of the Department.
- POLI 6580 Seminar in Marxist Theory** 3 cr.  
This seminar deals with the development of Marxist political and social thought, the place of Marxism in the history of western ideas, and the contemporary importance and relevance of Marxism. The following aspects will be especially emphasized: Marx's concept of alienation, the phenomenon of revisionism, the restructuring of Marxism under Soviet Communism, the Maoist deviation, attempts to integrate Marx and Darwin (Engels) and Marx and Freud (Marcuse).
- POLI 6600 Seminar in American Politics** 3 cr.
- POLI 6610 Seminar in Political Parties** 3 cr.
- POLI 6620 Seminar in Voting Behavior and Participation** 3 cr.  
An analysis of contemporary research on vote determinants, partisanship, issues and elections, economic influences, voter turnout, and political participation.
- POLI 6625 Seminar in Public Opinion** 3 cr.  
An analysis of contemporary research on individual and contextual sources of public opinion.
- POLI 6630 Seminar in Political Socialization** 3 cr.  
A study of the social process as related to political beliefs, norms, and standards of behavior. Topics to be covered will include the content of socialization, the circumstances under which learning occurs, the agents of socialization and the impact of political learning on the individual's political behavior.
- POLI 6640 Seminar in Black Politics** 3 cr.
- POLI 6641 Research on Minority Politics** 3 cr.  
Prerequisite: POLI 6640 or consent of department. A research-oriented seminar in minority politics. Inferential techniques employed in the analysis of minority politics will be examined, and students will be required to engage in original research endeavors.
- POLI 6650 Seminar in Women and Politics** 3 cr.  
A study of feminist political thought and research on the importance of gender in social movements, political attitudes and behavior, political leadership, and public policy.
- POLI 6670 Seminar in Presidency Research** 3 cr.  
Investigation into problems, data, and prospects in researching the American presidency. Examines the presidency in relation to other
- POLI 6675 Seminar in Presidential-Congressional Relations** 3 cr.  
A study of the constitutional foundations of executive-legislative relations, resources and constraints each possess, explaining presidential success in Congress, and the causes and consequences of divided government.
- POLI 6680 Seminar in Legislative Behavior** 3 cr.  
This course will seek to provide an overview of contemporary research on legislative behavior. Most of the existing literature focuses on the national Congress but the course will also be concerned with state legislatures as well. The seminar will include an extensive review of the literature and statistical analysis of legislative roll call voting.
- POLI 6700 Seminar in Comparative Politics** 3 cr.
- POLI 6710 Seminar in Developing Political Systems** 3 cr.  
Political modernization, ideology and political development, economic factors in political development, traditional versus modern sectors, role of the military, development of bureaucracies, guided democracy, charismatic leadership.
- POLI 6720 Seminar in Developed Political Systems** 3 cr.  
Criteria of development, structural-functional approach to analysis of developed political systems, communications models, interest articulation and aggregation, institutional frameworks.
- POLI 6730 Seminar in Political Change and Development** 3 cr.  
Theories of development; relationship between political and economic development, the revolution of rising expectations, political infrastructure, levels of development.
- POLI 6740 Seminar in Latin American Politics** 3 cr.  
The major alternatives for change: democratic reform or violent revolution; political infrastructure, interest aggregation and the acceleration of demands; the changing role of the military; the rise of urban terrorism; political heritage; personalism; dictatorship; role of the church.
- POLI 6750 Seminar in Comparative Public Policy** 3 cr.  
Comparative analysis of actors, preferences and strategic environments, including political institutions, to explain a wide range of policy outputs in a broad comparative context.
- POLI 6760 Seminar in Comparative Political Economy** 3 cr.  
Methods of political economy, including rational choice theory, game theory, spatial modeling, and the new institutionalism. Theoretical developments related to social movements and collective action, problems of delegation. Applications to particular topics, such as voting, property rights, economic reform, and corruption.
- POLI 6810 Seminar in International Relations Theory** 3 cr.  
This course will provide an overview of contemporary research on international relations. It is organized around points of common interest to scholars of international relations, including such concepts as the underlying nature of the international system, the causes of conflict between states, and possible sources of cooperation between states.
- POLI 6820 Seminar in International Politics and Organizations** 3 cr.  
This course will provide an overview of contemporary research on international organizations and international law. It is organized around points of common interest to scholars of international relations, such as the emergence and evolution of international organizations, the creation of international laws and norms, and the impact of these institutions on nation-state behavior.

- POLI 6850 Politics of International Economics Relations** 3 cr.  
This seminar is an introduction to the field of international political economy. Topics may include but are not limited to major approaches to political economy and international political economy in political science, cooperation and regime theory, trade and finance, globalization, regional integration, and the use of economic sanctions in international politics.
- POLI 6885 Seminar in International Conflict** 3 cr.  
The purpose of this course is to analyze the most important theories regarding the causes of international war and conflict. It will introduce students to a wide range of research on international conflict. Topics may include polarity, power transition theory, hegemony, arms races, alliances, deterrence theory, diversionary theories, regime types, rivalry, civil wars, the escalation and diffusion of wars, and trade and military conflict.
- POLI 6990 Independent Research** 3 cr.  
Independent research in the graduate student's area of specialization, under the direction of a designated member of the graduate faculty.
- POLI 7000 Thesis Research** 1 cr. min./9 cr. max.  
To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.
- POLI 7040 Examination Or Thesis Only** 0 cr.  
Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.
- POLI 7050 Dissertation Research** 1 cr. min./9 cr. max.  
Preparation of dissertation by Ph.D. candidate under direction of major professor and dissertation committee. Section number will correspond with credit to be earned. To be repeated for credit until dissertation is accepted.
- Psychology**
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- General Prerequisites: with the exception of Psychology 1500 and 1520, students may not enroll in psychology courses unless they are eligible to enroll in Mathematics 1115 or 1125 and English 1157 or have credit in mathematics and English at the college level.
- PSYC 1000 General Psychology** 3 cr.  
Offered each semester. A general introduction to the scientific study of the behavior of organisms. An honors section (1009) is available for qualified students.
- PSYC 1009 General Psychology** 3 cr.  
Offered each semester. A general introduction to the scientific study of the behavior of organisms; for students in the Honors Program.
- PSYC 1310 General Statistics** 3 cr.  
Offered each semester. Prerequisites: PSYC 1000 or 2200 and MATH 1115. Frequency distributions, measures of central tendency and dispersion, correlation, discrete and continuous probability functions, tests of significance including t and chi-square. Introduction to analysis of variance, regression, and non-parametric tests of significance. Two hours of lecture and two hours of laboratory.
- PSYC 1500 The Psychology of Personal Adjustment** 3 cr.  
Offered each semester. The psychology of daily living with emphasis on identification and coping with the stressors of life. Topics include personality, stress and anxiety, interpersonal relationships, and substance abuse
- PSYC 1520 Human Sexual Behavior** 3 cr.  
Offered each semester. Aspects of human sexuality including behavior, anatomy, physiology, cross-cultural comparisons, and historical and current perspectives.
- PSYC 2091 Special Topics in Psychology** 3 cr.  
Prerequisite: PSYC 1000 or 2200. Topics will vary from semester to semester. This course may be repeated once for credit.
- PSYC 2110 Child Psychology** 3 cr.  
Prerequisite: PSYC 1000 or 2200. Study of the physical, social, and psychological development of the child.
- PSYC 2120 Adolescent Psychology** 3 cr.  
Prerequisite: PSYC 1000 or 2200. Study of the physical, social, and psychological development of the adolescent.
- PSYC 2130 Adult Development and Aging** 3 cr.  
Prerequisite: Psychology 1000 or 2200. Study of the physical, social, and psychological development of the adult.
- PSYC 2200 Educational Psychology** 3 cr.  
Applications of psychology to the educative process.
- PSYC 2300 Experimental Design and Methodology** 3 cr.  
Offered each semester. Prerequisite: PSYC 1310 or a first course in statistics. Introduction to scientific method, experimental and statistical design, scientific writing, and psychophysical and psychological research methodology. Two hours of lecture and two hours of laboratory.
- PSYC 2320 Introduction to Biopsychology** 3 cr.  
Prerequisites: PSYC 1000 or BIOS 1083 or BIOS 1303. The study of the brain and nervous system, sensory processing, movement, development, sleep and arousal, motivation, emotion, learning, memory, cognitive function, and language.
- PSYC 2340 Motivation and Emotion** 3 cr.  
Prerequisite: PSYC 1000. Survey of classes of behavior seen in human and infra-human forms, including general activity and exploration, consummatory behavior, aggression, social affiliation, social approval, achievement, and goal-setting behavior; discussion of concepts of instinct, drive, habit, reinforcement, expectancy, and incentive.
- PSYC 2380 Psychology of Cognition** 3 cr.  
Prerequisite: PSYC 1000 or 2200. The study of concept formation, problem-solving, understanding, and language with emphasis on the development thereof; theory, research, and application.
- PSYC 2400 Social Psychology** 3 cr.  
Prerequisite: three hours of psychology or sociology. Survey of the cultural forces as they affect attitudes, social learning, perception, and communication of the individual and the group.
- PSYC 3090 Independent Reading and Research in Psychology** 1 cr. min./6 cr. max.  
Offered each semester. Prerequisite: PSYC 2300 and consent of department. The individual student is responsible for the selection of the area of reading or research. May be repeated for a total of six semester hours credit. Section number will correspond with credit to be earned.
- PSYC 3095 Field Experience in Applied Psychology** 3 cr.  
Prerequisites: Psychology 2300 completion of a 4000-level content course in an area relevant to the proposed field experience, and consent of department. Students will be placed in an agency or office setting which has been approved by the appropriate departmental committee, to gain supervised experience in the applications of psychology in field settings. Students usually work eight hours a week at times mutually agreeable to the individual and the applied setting. In addition, students must meet regularly with

- the faculty supervisor, and the student's work must be evaluated by both the faculty supervisor and the site supervisor. May be repeated once for credit.
- PSYC 3099 Senior Honors Thesis** 1 cr. min./6 cr. max.  
Offered each semester. Prerequisite: PSYC 2300, consent of department, consent of director of the Honors Program, and grade point averages of at least 3.5 in psychology and 3.25 overall. Senior honors thesis research in psychology under the direction of a faculty member. Students may earn up to a total of six credits.
- PSYC 4000 Psychology Comprehensive Exam** 0 cr.  
Prerequisites: Graduating seniors and consent of the department. This is a required, zero credit course, that psychology seniors must take in their final semester in order to graduate. This course meets twice. Once for an organizational meeting, and once to take a comprehensive psychology exam.
- PSYC 4010/G History of Modern Psychology** 3 cr.  
Offered each semester. Prerequisite: PSYC 2300. A historical survey of psychology with special reference to schools of psychology.
- PSYC 4091/G Special Topics in Psychology** 3 cr.  
Prerequisite: PSYC 2300. The topics will vary from semester to semester. This course may be repeated once for credit.
- PSYC 4100/G Lifespan Developmental Psychology** 3 cr.  
Prerequisite: PSYC 2300. Emphasis on learning, motivation, perceptual, and verbal processes across the lifespan.
- PSYC 4310/G Intermediate Statistics** 3 cr.  
Prerequisite: PSYC 2300. An intensive treatment of descriptive and inferential statistics, including an introduction to the analysis of variance. Consideration is given to special correlation procedures, including multiple prediction. Two hours of lecture and two hours of laboratory.
- PSYC 4320/G Physiological Psychology** 3 cr.  
Prerequisite: PSYC 2300 and 2320. An introduction to the function of the nervous system with respect to sensation, perception, learning, and motivation. Two hours of lecture and two hours of laboratory.
- PSYC 4330/G Comparative Psychology** 3 cr.  
Prerequisite: PSYC 2300. Similarities and differences in behavior between and within various animal species, influences of heredity and experience on behavior. Two hours of lecture and two hours of laboratory.
- PSYC 4350/G Psychology of Learning** 3 cr.  
Prerequisite: PSYC 2300. The study of behavior from the standpoint of learning. A critical review and analysis of recent experimental literature in the learning area plus a consideration of the major theories of learning. Two hours of lecture and two hours of laboratory.
- PSYC 4365/G Sensation and Perception** 3 cr.  
Prerequisite: PSYC 2300. A consideration of the sensory systems (including vision, audition, olfaction, gustation, somesthesia) and a survey of perceptual phenomena, scaling, psychophysics, the organization of perception, perceptual learning, and sensation-perception distinctions.
- PSYC 4510/G Personality** 3 cr.  
Prerequisite: Six hours of psychology courses at the 2000 level. Determinants and dynamics of personality.
- PSYC 4530/G Introduction to Abnormal Psychology** 3 cr.  
Prerequisite: six hours of psychology courses at the 2000 level or above. An introduction to personality maladjustment and mental disorder.
- PSYC 4550/G Clinical Psychology** 3 cr.  
Prerequisite: PSYC 2300. Introduction to the history, clinical techniques, research methods, ethics, and political concerns of clinical psychology.
- PSYC 4600/G Psychological Tests and Measurements** 3 cr.  
Prerequisite: PSYC 2300. Test construction, standardization, validation; intelligence, clerical, mechanical, spatial aptitude tests; interest and personality tests; test batteries. Two hours of lecture and two hours of laboratory.
- PSYC 4700/G Introduction to Personnel and Industrial Psychology** 3 cr.  
Prerequisite: PSYC 2300. A review of scientific methodology and statistical concepts applicable to the industrial situation; followed by the contributions of psychology to personnel selection, training, human relations, environmental engineering, organizational structure, and consumer research.
- PSYC 6050 Seminar on Professional Problems** 3 cr.  
Prerequisite: consent of department. Review of licensing requirements in Louisiana and other states; ethical standards in practice, teaching, and research; and laws governing the use of humans and animals in research. Review of research grant application procedures, practicum responsibilities, and an overview of standard practices in the instruction of psychology courses.
- PSYC 6090 Independent Research in Psychology** 3 cr.  
Prerequisite: consent of department. This course may be repeated for credit. Research experience with psychological topics not being taken concurrently for thesis or dissertation credit. The individual student is responsible for the selection of the area of research.
- PSYC 6091 Seminar** 1 cr.  
Prerequisite: consent of department. All graduate students will be expected to participate in a report and discussion group in the field of psychology. Must be taken for credit a minimum of four times.
- PSYC 6101 Fundamentals of Applied Developmental Psychology I** 3 cr.  
Prerequisite: admission to graduate program in psychology and consent of department. A review of research and theory in lifespan developmental psychology. Special consideration will be given to age-related changes in cognitive structure, language acquisition, sensation and perception, experiential influences, and social-emotional development.
- PSYC 6102 Fundamentals of Applied Developmental Psychology II** 3 cr.  
Prerequisite: PSYC 6101 and Consent of Department. This course is concerned with how psychological research and intervention strategies are combined in health and human services settings. Social policy and available services will be discussed.
- PSYC 6130 Infant Care and Stimulation** 3 cr.  
Prerequisite: PSYC 6101 and Consent of Department. The course will deal with pre- and post-natal influences on early development from conception through three years of age. Topics will include prenatal development, learning, cognition, sensory processes, and social factors.
- PSYC 6150 Psychology of Aging** 3 cr.  
Prerequisite: PSYC 6101 and Consent of Department. A review and evaluation of research and theories of the aging process. Emphasis will be placed on the application of basic research in neuropsychology, psychophysiology, psychopharmacology, cognition, environmental issues, interpersonal relations, stress and coping, and clinical issues.

- PSYC 6170 Problems in Social-Emotional Development** 3 cr.  
Prerequisite: PSYC 6101 and Consent of Department. A review and evaluation of research in social-emotional development throughout the life-span. Emphasis will be given to the determinants of deviant social-emotional development in childhood, maturity, and senescence. Techniques for the assessment and management of deviant development will be presented.
- PSYC 6180 Problems in Cognitive and Intellectual Development** 3 cr.  
Prerequisite: PSYC 6101 and Consent of Department. A review of the theoretical, methodological, and applied issues in cognitive and intellectual development across the life-span. Emphasis is placed on research and its practical application to cognitive and intellectual deficiencies.
- PSYC 6191 Practicum in Applied Developmental Psychology** 3 cr. min./6 cr. max.  
Prerequisites: PSYC 6050 6101 6311 6312 6350 6801 and either 6102 or 6802 and Consent of Department. Supervised experience in various fields of applied developmental psychology. Amount of credit to be stated at time of registration. May be repeated for credit.
- PSYC 6195 Advanced Seminar in Applied Developmental Psychology** 3 cr.  
Prerequisite: PSYC 6101 and Consent of Department. The topics vary from semester to semester and may include current topics in social, personality, and cognitive development, developmental methods, or new or developing areas of application. This seminar may be repeated for credit.
- PSYC 6291 Advanced Seminar in Educational-Developmental Psychology** 3 cr.  
Prerequisite: consent of department. The topics will be varied from semester to semester and may include such areas as contemporary theory, research problems, and controversial issues in educational and developmental psychology.
- PSYC 6292 Advanced Seminar in Educational-Developmental Psychology** 3 cr.  
Prerequisite: consent of department. The topics will be varied from semester to semester and may include such areas as contemporary theory, research problems, and controversial issues in educational and developmental psychology.
- PSYC 6311 Advanced Statistics I** 3 cr.  
Prerequisite: admission to graduate program in psychology and consent of department. Machine calculation, coding, measures of centrality and variation, regression, correlation, prediction, probability, statistical inference, chi square, t and F distributions, simple analysis of variance, multiple prediction, reliability and validity of measurements.
- PSYC 6312 Advanced Statistics II** 3 cr.  
Prerequisites: PSYC 6311 and Consent of Department. Complex analysis of variance designs: factorial, treatments-by-subjects, groups-within-treatments, mixed, random replications, Latin and Greco-Latin Squares. Analysis of covariance, trend tests, non-parametric tests, sequential analysis, curve fitting.
- PSYC 6350 Advanced Learning** 3 cr.  
Prerequisite: admission to graduate program in psychology and consent of department. An advanced study of the principles and theories of learning, including both animal and human learning. Two hours of lecture and two hours of laboratory.
- PSYC 6391 Seminar in Experimental Psychology** 3 cr.  
Prerequisite: consent of department. The topics will be varied from semester to semester and will include: discrimination learning, avoidance learning, verbal behavior, animal behavior, brain stimulation, and behavior. This seminar may be repeated once for credit.
- PSYC 6392 Seminar in Experimental Psychology** 3 cr.  
Prerequisite: consent of department. The topics will be varied from semester to semester and will include: discrimination learning, avoidance learning, verbal behavior, animal behavior, brain stimulation, and behavior. This seminar may be repeated once for credit.
- PSYC 6395 Advanced Seminar in Statistics** 3 cr.  
Prerequisites: PSYC 6311 6312 and consent of department. The topics will vary from semester to semester and may include such topics as Regression, Multivariate Analysis, Factor Analysis and Psychometric Theory. The seminar may be repeated for credit.
- PSYC 6400 Social Psychology** 3 cr.  
(SOC 6573 and PSYC 6400 are cross-listed) Prerequisite: consent of department. Analysis of the relationship between human behavior and social context, emphasizing the impact of social forces on social action and cognition. Topics include theoretical paradigms in social psychology, language use and interaction, small groups, self and identities, collective behavior, attitudes and behavior. Critical analysis of existing theory and research methodology will be considered for each topic.
- PSYC 6500 Seminar in Psychological Interventions** 3 cr.  
Prerequisite: consent of department. Topics will vary from semester to semester. Each seminar will focus on a single model or method of intervention and practical considerations in its implementation. This seminar may be repeated for credit.
- PSYC 6550 Psychopathology** 3 cr.  
Prerequisite: consent of department. An introduction to the experimental analysis of deviant behavior.
- PSYC 6610 The Measurement of Intelligence** 3 cr.  
Prerequisite: consent of department.
- PSYC 6620 Developmental Assessment of Psychopathology** 3 cr.  
Prerequisite: consent of department. The theory and techniques used in the assessment of psychopathology from a developmental perspective.
- PSYC 6630 Measurement of Behavior** 3 cr.  
Prerequisite: consent of department. The techniques and theory of behavior measurement with emphasis on problems of data collection.
- PSYC 6792 Practicum In Psychology** 1 cr. min./6 cr. max.  
Prerequisite: consent of department. Supervised experience in various fields of psychology. Section number will correspond with the credit to be earned.
- PSYC 6793 Practicum In Psychology** 1 cr. min./6 cr. max.  
Prerequisite: consent of department. Supervised experience in various fields of psychology. Section number will correspond with the credit to be earned.
- PSYC 6794 Practicum In Psychology** 1 cr. min./6 cr. max.  
Prerequisite: consent of department. Supervised experience in various fields of psychology. Section number will correspond with the credit to be earned.
- PSYC 6801 Fundamentals of Applied Biopsychology I** 3 cr.  
Prerequisite: admission to graduate program in psychology and consent of department. Review of anatomical, physiological, and biochemical bases of behavior with special consideration of the consequences of disease or injury-caused disturbances.
- PSYC 6802 Fundamentals of Applied Biopsychology II** 3 cr.  
Prerequisite: PSYC 6801 and an advanced undergraduate or graduate neuroanatomy lab and consent of department. Lectures and readings on the application of the fundamental principles of

neurology and biology to the traditional subdisciplines of biopsychology, including sensation and perception, control of movement, emotion, motivation, learning and memory, and disorders of thought and mood.

**PSYC 6810 Psychopharmacology** 3 cr.  
Prerequisite: PSYC 6801 and consent of department. Interrelations of human biochemistry and behavior with particular attention to neural transmitters, the endocrine system, and clinical applications.

**PSYC 6820 Psychophysiology** 3 cr.  
Prerequisite: PSYC 6801 and consent of department. Review of physiological concomitants of normal and disturbed behavioral processes. Topics will include evoked potentials galvanic skin response and brainstem potentials. Two hours of lecture and two hours of laboratory.

**PSYC 6830 Neuropsychology** 3 cr.  
Prerequisite: PSYC 6801 and consent of department. Review and evaluation of research in and the diagnosis and treatment of brain dysfunction.

**PSYC 6840 Behavioral Medicine** 3 cr.  
Prerequisite: PSYC 6801 and consent of department. Summary of biological and behavioral interactions in the prevention, diagnosis, and treatment of psychosomatic disorders such as headaches, insomnia, sexual dysfunction, and cardiovascular diseases.

**PSYC 6891 Practicum in Applied Biopsychology** 3 cr. min./6 cr. max.  
Prerequisites: PSYC 6050, 6101, 6311, 6312, 6350, 6801, and either 6102 or 6802 and consent of department. Supervised experience in various fields of applied biopsychology. Amount of credit to be stated at time of registration. May be repeated for credit.

**PSYC 6895 Advanced Seminar in Applied Biopsychology** 3 cr.  
Prerequisite: PSYC 6801 and consent of department. The topics vary from semester to semester and may include such current topics as brain function theory, biopsychological methods, or new or developing areas of application. This seminar may be repeated for credit.

**PSYC 7000 Thesis Research** 1 cr. min./9 cr. max.  
Prerequisite: consent of department. To be repeated for credit until thesis is accepted. Section number will correspond with the credit to be earned.

**PSYC 7010 Teaching of Psychology** 3 cr.  
Requisites: Masters degree and consent of department. Supervised experience in teaching an undergraduate lecture class in psychology. Provides didactic and practical experience in designing a coherent course structure, developing a syllabus, using innovative teaching methods, designing effective exams, evaluating teaching effectiveness, and being sensitive to ethical issues involved in teaching and interacting with students.

**PSYC 7025 Procedures and Problems in Psychological Research** 3 cr.  
Prerequisite: for doctoral candidates only and consent of department. This course may be repeated once for credit. Research experience with topics not planned for dissertation. The student is responsible for the selection of the area of research.

**PSYC 7040 Examination or Thesis Only** 0 cr.  
Prerequisite: consent of department. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

**PSYC 7050 Dissertation Research** 1 cr. min./9 cr. max.  
Prerequisite: consent of department. Preparation of dissertation by Ph.D. candidate under direction of major professor and dissertation committee. Section number will correspond with credit to be earned. To be repeated for credit until dissertation is accepted”

**PSYC 7191 Internship in Applied Developmental Psychology** 6 cr. min./9 cr. max.  
Offered each semester. Prerequisites: Completion of course work and general examination and consent of department. Only open to Applied Developmental Psychology graduate students nominated by the Department of Psychology and accepted by a departmentally-approved internship site. An internship normally involves the equivalent of 12 months of supervised full-time experience. To qualify as an internship, a minimum of 1500 hours at the site must be completed within 24 months. The internship is an intensive, advanced supervised experience required to be a practicing psychologist. May be repeated for credit. Pass/fail grading.

**PSYC 7891 Internship in Applied Biopsychology** 6 cr. min./9 cr. max.  
Offered each semester. Prerequisites: Completion of course work and general examination and consent of department. Open only to applied biopsychology graduate students nominated by the Department of Psychology and accepted by a departmentally-approved internship site. An internship normally involves the equivalent of 12 months of supervised full-time experience. To qualify as an internship, a minimum of 1500 hours at the site must be completed within 24 months. The internship is an intensive, advanced supervised experience required to be a practicing psychologist. May be repeated once for credit. Pass/fail grading.

## Quantitative Methods – Business and Economics

**QMBE 2785 Introduction to Business and Economics Statistics** 3 cr.  
Offered each semester. Prerequisite: BA 2780, MATH 1115 or 1125 and 1140. Descriptive statistics including measures of location and dispersion; classical probability theory; statistical inference including sampling, point and interval estimation and hypothesis testing; time series; index numbers.

**QMBE 2786 Intermediate Business and Economics Statistics** 3 cr.  
Prerequisite: BA 2780, MATH 2314 and concurrent enrollment in quantitative methods - QMBE 2787. Hypothesis testing; Chi-Squared distribution; analysis of variance; correlation; simple and multiple regression; non-parametric methods; forecasting.

**QMBE 2787 Business and Economics Statistics Laboratory** 1 cr.  
Prerequisite: BA 2780, Math 2314, or equivalent. Concurrent enrollment in QMBE 2786. Laboratory course will demonstrate business applications or principles covered in Math 2314 and QMBE 2786. Students will use statistical software packages to analyze a variety of business-oriented datasets and produce appropriate reports.

**QMBE 4400 Statistics for Managers** 3 cr.  
Gives the statistical foundation needed for managerial decision making and is designed to prepare students for graduate study in business. Covers topics in probability, random variables, sampling theory, statistical inference and regression analysis. Not open to College of Business undergraduate majors. May not be taken for graduate credit. Students may not receive credit for both QMBE 2785 and QMBE 2786 and this course.

**QMBE 4785/G Advanced Regression and Correlation Analysis for Business and Economics** 3 cr.  
Prerequisite: QMBE 2786 or equivalent or consent of department. Matrix techniques; linear regression and correlation theory, heteroscedasticity, autocorrelation and multicollinearity; two-stage

least squares, maximum likelihood techniques; K-class estimators; computer use, research methods, and data sources.

**QMBE 4786/G Advanced Statistical Decision**

**Analysis for Business and Economics** 3 cr.  
Prerequisite: QMBE 2786 or equivalent or consent of department. Decision under uncertainty; conditional, joint and marginal probability; Bayes Theorem; empirical and theoretical frequency distributions; statistical decision rules with binomial sampling and Bernoulli processes; statistical decision rules with normal sampling, and the Central Limit Theorem; suspension of judgment.

**QMBE 6280 Mathematics in Financial Economics** 3 cr.

Prerequisite: ECON 3781 or MATH 2020 or 2107. Mathematics and applications of the following topics: Multivariate calculus, integral calculus, matrix algebra, differential equations, and non-linear programming.

**QMBE 6281 Econometrics I** 3 cr.

Prerequisites: QMBE 2786 and 6280. A review of basic statistical inference and treatment of the general linear regression model and its extensions. Topics include probability and distribution theory, estimation and hypothesis testing, linear regression, heteroskedasticity and serial correlation, varying parameter models, systems of linear regressions, nonlinear estimation and stochastic regressors.

**QMBE 6282 Econometrics II** 3 cr.

Prerequisite: QMBE 6281. Topics in econometric analysis, including simultaneous equation models, time series analysis and distributed lag models, multiple time series, qualitative and limited dependent variable models, markets in disequilibrium, switching regressions, multicollinearity and robust estimation.

**QMBE 6283 Seminar in Mathematics and Statistics for Financial Economics** 3 cr.

Prerequisite: QMBE 6282. Applications of econometric methods to empirical problems in financial economics. Topics, selected by the instructor, will be drawn from recent literature and will illustrate the use of new and previously developed econometric methods.

**QMBE 6295 Special Topics in Quantitative Methods** 1 cr. min./4 cr. max.

An intensive study of selected special topics in Quantitative Methods. Topics will vary based on contemporary needs as dictated by the discipline as well as the interests of the students and the instructor. Section number will correspond with credit to be earned.

**QMBE 6380 Advanced Mathematics in Financial Economics** 3 cr.

Prerequisite: QMBE 6280. Mathematical tools and techniques for theory in Financial Economics; logical reasoning and construction of proofs; geometric intuition of mathematical concepts. Topics: linear spaces and linear algebra, topological concepts of metric spaces, functions and correspondences, convex analysis, optimization.

**QMBE 6780 Operations Research** 3 cr.

Offered each semester. This course is an introduction to solving quantitative problems in business and government organizations. It includes linear programming and the simplex algorithm; duality; the assignment and transportation problems; integer programming; goal programming; non-linear programming using LaGrange multipliers and the Kuhn-Tucker method; Markov chains; simulation; Von Neumann-Morgenstern analyses of utility, games, and decisions.

**QMBE 6781 Business Forecasting and Econometrics** 3 cr.

Prerequisites: QMBE 2786 and Economics 3781 or Mathematics 2010 or 2107. Single equation regression models with emphasis on applications in business, finance, and economics. Topics include: multiple regression with least squares and alternative estimators,

two stage least squares, single equation forecasting, and forecasting with time series models.

## Romance Languages

**ROML 4005/G Greek & Roman Myth: The Ancient Sources** 3 cr.

Prerequisite: Latin 1012 or Greek 1012 or consent of department. A survey of Greek and Roman mythology originating from the ancient texts of classical authors. Concentration is on the multiple functions of myths and their interpretations in both the ancient and modern worlds. Further attention is directed to visual models depicting classical themes and the introduction of Greek and Latin words and nomenclature.

**ROML 6003 Applied Romance Linguistics** 3 cr.

Evaluation of language teaching methods based on recent learning theory. Readings and discussions of language methodology and textbook critiques. Required of all graduate students.

**ROML 6005 Romance Linguistics** 3 cr.

Prerequisite: FREN 4015 or SPAN 4015 or equivalent. Comparative study of the history, phonology, morphology, and syntax of the two principal Romance languages. Required of graduate students with language/civilization concentration.

**ROML 6105 Methods of Research of Romance Literatures** 3 cr.

A study of techniques of literary analysis and literary scholarship appropriate to each of the major genres of French and Spanish.

**ROML 6205 Comparative Romance Cultures** 3 cr.

Prerequisite: FREN 4265 or SPAN 4265 or equivalent. Focus on the links of contemporary French and Spanish cultures to American culture through in-depth study of a common particular theme, problem, or perspective in the humanities, arts, or social sciences.

**ROML 6207 Early Modern Romance Cultures** 3 cr.

Prerequisite: FREN 4201 or SPAN 4201 or equivalent. Focus on major themes in common to three romance cultures (French, Italian, Spanish) in their early periods of development, i.e. pre-1600. Topics may include courtliness and courtly love; leader and community; realism, magic, and afterlife; creativity and crisis; images of women in literature and art. May be repeated once for credit.

## Russian

**RUSS 1001 Introductory Russian** 3 cr.

A course for beginners with emphasis on basic language skills.

**RUSS 1002 Introductory Russian** 3 cr.

A continuation of Russian 1001.

**RUSS 2001 Intermediate Russian** 3 cr.

An intensive language study progressively accentuating reading skills.

**RUSS 2002 Intermediate Russian** 3 cr.

Readings and exercises in Russian. Special emphasis on comprehension as well as oral and written expression in the language.

**RUSS 2101 Readings in Russian** 3 cr.

Reading and discussion of selected Russian authors.

**RUSS 2402 Major Russian Writers in Translation** 3 cr.

Selected readings and study of the outstanding works of nineteenth century Russian literature: Pushkin, Lermontov, Gogol, Dostoevsky, Tolstoy, and Turgenev.

**RUSS 2804 Russian Literature of the Soviet Period in Translation** 3 cr.

An historical survey of Soviet Russian literature from 1917 to the present. Many authors and their works are discussed with emphasis on Zamyatin's *We*, Leonov's *The Thief*, Sholokhov's *And Quiet Flows*

*the Don*, Pasternak's *Doctor Zhivago*, and Solzhenitsyn's *A Day in the Life of Ivan Denisovich*. Special attention is given to ideological and political aspects of Soviet theory and history of literature such as "social command," "socialist realism," and "the thaw."

**RUSS 3191 Independent Work** 1 cr.  
Prerequisite: consent of department. Readings, conferences, and papers under the direction of a member of the faculty. The course allows the student to correlate and supplement the work covered in the departmental courses. Each course may be repeated but combined credit may not exceed six semester hours.

**RUSS 3192 Independent Work** 1 cr.  
Prerequisite: consent of department. Readings, conferences, and papers under the direction of a member of the faculty. The course allows the student to correlate and supplement the work covered in the departmental courses. Each course may be repeated but combined credit may not exceed six semester hours.

**RUSS 3193 Independent Work** 1 cr.  
Prerequisite: consent of department. Readings, conferences, and papers under the direction of a member of the faculty. The course allows the student to correlate and supplement the work covered in the departmental courses. Each course may be repeated but combined credit may not exceed six semester hours.

## Science

**SCI 1012 Physical Science for Elementary Teachers I** 4 cr.  
Prerequisites: Math 1021 and Math 1022. Introduction to the basic physical sciences integrating topics in Physics, Chemistry, and Earth Science. Material will cover a variety of topics ranging from properties of natural materials and natural processes related to matter and mechanics. Course will integrate lab and lecture in a hands-on, constructivist classroom experience designed to provide future elementary school teachers with a firm scientific understanding of the topics presented and the skills needed to bring that knowledge into the elementary/middle school classroom. This course may be used for degree credit only by elementary education majors.

**SCI 1013 Science for Elementary School Teachers II** 4 cr.  
Prerequisites: Math 1021 and Math 1022 SCI 1012 or permission from the instructor. Introduction to the basic physical sciences integrating topics in Physics, Chemistry, and Earth Science. Material will cover a variety of topics such as properties of natural materials and natural processes related to electricity and magnetism, electric circuits, and motors. Course will integrate lab and lecture in a hands-on, constructivist classroom experience designed to provide future elementary school teachers with a firm scientific understanding of the topics presented and the skills needed to bring that knowledge into the elementary/middle school classrooms. This course may be used for degree credit only by elementary education majors.

**SCI 1014 Science for Elementary School Teachers III** 4 cr.  
Prerequisites: Math 1021 and Math 1022, SCI 1012, or permission from the instructor. Introduction to the basic physical sciences integrating topics in Physics, Chemistry, and Earth Science. Material will cover a variety of topics ranging from properties of natural materials and natural processes related to wave motions, heat and light. Course will integrate lab and lecture in a hands-on, constructivist classroom experience designed to provide future elementary school teachers with a firm scientific understanding of the topics presented and the skills needed to bring that knowledge into the elementary/middle school classrooms. This course may be used for degree credit only by elementary majors.

## Sociology

**SOC 1051 Introductory Sociology** 3 cr.  
Offered each semester. A first course in the study of human beings in society using basic concepts and methods of sociology. Topics include the influences of social groups on individuals' attitudes and behaviors, stability and change in the family, and social inequality.

**SOC 2098 Special Topics in Sociology** 3 cr.  
A theoretical and methodological examination of selected sociological topics with emphasis on current trends and tendencies in modern societies. This course may be repeated once for credit.

**SOC 2152 Social Institutions** 3 cr.  
An analysis of stable and enduring social institutions, including the family, education, the economy, religion, government, the arts, science, law, and recreation.

**SOC 2175 Industrial Sociology** 3 cr.  
Human relationships in industry; the relations of industry to the community and society.

**SOC 2273 Society and the Person** 3 cr.  
A review of the relationships between society and the person. The social conditioning of the individual through infancy, childhood, and adult life and the reciprocal influences of the person in society are the essence of the course.

**SOC 2707 Social Statistics I** 4 cr.  
Offered each semester. Prerequisite: three hours of mathematics above DEVM 0107. A study of descriptive and inferential statistics employed in social science research including measures of central tendency and variation, rates, graphing techniques, measures of association, tests of significance, and regression. Laboratory meetings also cover introduction to computer usage, spread sheets, and PC-based statistics programs. Successful completion of SOC 2707 and 2708 meets the general degree requirement for computer literacy. Three hours of lecture and two hours of laboratory.

**SOC 2708 Methods in Social Research** 3 cr.  
Offered each semester. Prerequisite: SOC 1051. A comprehensive examination of the logic and applications of the scientific method in the social sciences. Topics include survey, evaluation, experiment, existing sources, and field research. In addition, the student is introduced to computer usage, including work processing and data analysis with a statistics package on a main frame computer. Successful completion of Sociology 2707 and 2708 meets the general degree requirement for computer literacy.

**SOC 2871 The Environment as a Social Problem** 3 cr.  
Prerequisite: Sociology 1051 or consent of instructor. Examines environmental hazards and depletion of natural resources as important social problems confronting contemporary society. Alternative understandings of the seriousness and probable causes of a number of environmental problems, such as air pollution, toxic contamination, loss of wetlands, and species extinction, are explored.

**SOC 2881 The City** 3 cr.  
A comparative study of cities and social groups and processes in the urban environment.

**SOC 2962 Current Social Problems** 3 cr.  
A study of contemporary social problems and their consequences for humankind with emphasis on American society. Topics include crime, drug abuse, family problems, inequality, mental illness, population problems, and suicide.

**SOC 2994 Multiculturalism and Diversity in U.S. Society** 3 cr.  
U.S. society has been settled by immigrants from all over the world. In addition, such constitutional protections as freedom of speech, freedom of the press, and freedom of association create

legal protections for diversity. The present course uses sociological concepts and theories to analyze diversity and multiculturalism in U.S. society. It identifies circumstances which tend to give rise to tolerance or repression, assimilation or separation, respect or condemnation. It addresses both the problems diversity generates, as well as the potential it has to enrich our lives.

**SOC 3091 Independent Work** 1 cr.  
Offered each semester. Prerequisite: consent of department. Readings, conferences, and research reports under the direction of a member of the sociology faculty. In no case may a student register for SOC 3091-3097 for a total of more than nine hours, nor may a student apply more than six hours of sociology courses numbered 3091-3097 toward the hours required for the major in sociology.

**SOC 3092 Independent Work** 1 cr.  
Offered each semester. Prerequisite: consent of department. Readings, conferences, and research reports under the direction of a member of the sociology faculty. In no case may a student register for SOC 3091-3097 for a total of more than nine hours, nor may a student apply more than six hours of sociology courses numbered 3091-3097 toward the hours required for the major in sociology.

**SOC 3093 Independent Work** 1 cr.  
Offered each semester. Prerequisite: consent of department. Readings, conferences, and research reports under the direction of a member of the sociology faculty. In no case may a student register for SOC 3091-3097 for a total of more than nine hours, nor may a student apply more than six hours of sociology courses numbered 3091-3097 toward the hours required for the major in sociology.

**SOC 3094 Independent Field Research in Sociology** 3 cr.  
Offered each semester. Prerequisite: consent of department. Practical applications of data collection methods in natural settings; observation, participant-observation and field experimentation; emphasis on implementing research methods in the community. In no case may a student register for Sociology 3091-3097 for a total of more than nine hours, nor may a student apply more than six hours of sociology courses numbered 3091-3097 toward the hours required for the major in sociology.

**SOC 3095 Independent Field Research in Sociology** 3 cr.  
Offered each semester. Prerequisite: consent of department. Practical applications of data collection methods in natural settings; observation, participant-observation and field experimentation; emphasis on implementing research methods in the community. In no case may a student register for Sociology 3091-3097 for a total of more than nine hours, nor may a student apply more than six hours of sociology courses numbered 3091-3097 toward the hours required for the major in sociology.

**SOC 3096 Internship in Sociology** 3 cr.  
Offered each semester. Prerequisites: Sociology 2707, 2708 and consent of department. The sociology intern is placed in a city, parish, or state government agency or office in the metropolitan area to learn about the applicability of the sociological perspective and methodology to applied endeavors in government. Interns usually work eight hours a week at times mutually agreeable to the individual and the agency. In addition, students must meet regularly with the faculty adviser and the student's work must be evaluated by both the supervisor and adviser. In no case may a student register for Sociology 3091-3097 for a total of more than nine hours, nor may a student apply more than six hours of sociology courses numbered 3091-3097 toward the hours required for the major in sociology.

**SOC 3097 Internship in Sociology** 3 cr.  
Offered each semester. Prerequisites: Sociology 2707, 2708 and consent of department. The sociology intern is placed in a city, parish,

or state government agency or office in the metropolitan area to learn about the applicability of the sociological perspective and methodology to applied endeavors in government. Interns usually work eight hours a week at times mutually agreeable to the individual and the agency. In addition, students must meet regularly with the faculty adviser and the student's work must be evaluated by both the supervisor and adviser. In no case may a student register for Sociology 3091-3097 for a total of more than nine hours, nor may a student apply more than six hours of sociology courses numbered 3091-3097 toward the hours required for the major in sociology.

**SOC 3099 Senior Honors Thesis** 3 cr.  
Prerequisites: consent of department and director of the Honors Program. Directed research leading to the writing of a Senior Honors Thesis. This course must be repeated once in order to graduate With Honors in Sociology. The sociology honors program requires six hours of honors thesis in addition to all other requirements.

**SOC 3595 Academic Year Abroad: Special Topics in Sociology** 3 cr.  
This course is only offered through UNO's Academic Year Abroad (AYA) in Innsbruck, Austria and can be repeated once for credit.

**SOC 4070/G Special Topics in Women Literature, and Society** 3 cr.  
(WGS/WS 4070, ENGL 4070 and SOC 4070 are cross-listed) Prerequisite: ENGL 2378 or SOC 1051 or WGS/WS 2010 or consent of instructors. A team-taught, interdisciplinary study of women in literature and society. Variable topics include women and crime, women and work, women and the family, women and religion.

**SOC 4080/G Perspectives on Women Gender, & Sexuality** 3 cr.  
Prerequisites: SOC 1051 or consent of the instructor. This course examines an array of theoretical perspectives on gender relations and sexual identities. Particular emphasis will be given to the diversity of women's voices and to the intersections of gender, class, race, ethnicity, and sexual orientation.

**SOC 4086/G Sociological Theory** 3 cr.  
Prerequisite: nine hours in sociology. A systematic inquiry into the origins of modern sociological thought, with emphasis on major concepts and theoretical perspectives. Offered each semester.

**SOC 4094/G Social Change** 3 cr.  
Prerequisite: six hours in sociology. A comparative study of theories and processes of social change, with emphasis on modernization, economic development, and revolution.

**SOC 4098/G Selected Topics in Sociology** 3 cr.  
Prerequisite: SOC 1051 or consent of department. Selected problems of sociological research and theory with emphasis on trends and tendencies in modern society. This course may be repeated once for credit.

**SOC 4101/G Social Organization** 3 cr.  
Prerequisite: six hours in sociology. The structure and functioning of social groups and institutions, emphasizing American society.

**SOC 4103/G Racial Issues** 3 cr.  
Prerequisite: SOC 1051 or consent of department. This course introduces students to the sociology of race and ethnicity. It examines the history of race in the West through an analysis of institutional discourse and policy. It also explores current racial issues.

**SOC 4104/G The Family** 3 cr.  
Prerequisite: SOC 1051 or consent of department. An analysis of the family in social context, with emphasis on the ways in which communities and societies promote stability and change in families. Patterns of interaction among family members are also explored,

- together with the impact of family life on the individual's social development.
- SOC 4105/G Sociology of Religion** 3 cr.  
Examination of the social dimensions of religious beliefs and institutions. Emphasis on patterns of religious behavior in contemporary American society. Analysis of relationships between religion and processes of social change.
- SOC 4107/G Sociology of Gender** 3 cr.  
Prerequisites: six hours in sociology. This course examines issues of gender for men and women in society through a range of theoretically defined topics. Topics covered include the intersections of gender with race/ethnicity, class, and sexual orientation; gender role socialization, childbearing, reproductive rights, and parenting. Also included are units on gender and health, intimacy, and friendship. These topics are examined in terms of the social, economic, and political bases for gender differences.
- SOC 4111/G Sociology of Medicine** 3 cr.  
Prerequisite: SOC 1051 or consent of department. A sociological analysis of the interpersonal dynamics involved in the treatment of illness and the organizational structure and functions of health services.
- SOC 4112/G Sociology of Mental Health** 3 cr.  
Prerequisite: Sociology 1051 or consent of department. A sociological analysis of mental illness including the following areas: the history of mental illness in society, etiological explanations of mental illness, epidemiology of mental illness, mental health professions, law and psychiatry, community mental health, and mental health and social policy.
- SOC 4113/G Sociology of Aging and Death** 3 cr.  
Prerequisite: SOC 1051 or consent of department. An examination of the personal, interpersonal, and cultural dimensions of aging, together with an appraisal of the meaning and consequences of death in America. While the emphasis is contemporary, some historical and cross-cultural materials are also used. Attention is drawn to personal and societal needs associated with aging and death.
- SOC 4124/G Social Stratification** 3 cr.  
Prerequisite: six hours in sociology. A study of classes, status groups, castes, and social mobility.
- SOC 4130/G Sociology of Women** 3 cr.  
Prerequisite: SOC 1051 or consent of department. This course examines the position of women in society. Such topics as sex role socialization, sexuality, reproductive rights, housework, childrearing, and violence against women are examined in terms of the social, economic, and political bases for gender differences.
- SOC 4150/G Sociology of Popular Culture** 3 cr.  
Prerequisite: SOC 1051 or consent of the department. The course provides a survey of the sociology of culture, with a focus on popular culture. The emphasis is on theoretical approaches to the relationship of culture and society, the process of cultural production, and the reception of culture. The substantive focus includes the variety of meanings of film, rock music, and sport.
- SOC 4152/G Social Welfare Institutions** 3 cr.  
An analysis of social welfare institutions, both private and public, in fields of philanthropy, employment, insurance, health care, housing, urban renewal, poverty, crime prevention, and human development
- SOC 4161/G Political Sociology** 3 cr.  
Prerequisite: six hours in sociology. An examination of social institutions and political ideologies under conditions of early and late modernity. Particular attention is given to the new types of social and political challenges created by globalization and such human-created risks as global climate change and bioterrorism. Additional topics include the relation between deliberative democracy and community, the continuing influence of tradition and fundamentalism, and international efforts to promote gender equity and human rights.
- SOC 4178/G Occupations, Professions and the Urban Labor Force** 3 cr.  
Prerequisite: SOC 1051, or consent of department. Study of the organization of work in modern, urban societies, emphasizing the United States. Topics include professionalization, occupational choice and placement, methods of labor force analysis, and theories of the meaning of work.
- SOC 4180/G Women and Work** 3 cr.  
Prerequisite: SOC 1051 or consent of the department. Topics include an overview of the status of women, market work, including labor force participation, wages and wage discrimination, occupational segregation, equal pay for work of comparable worth, and domestic work.
- SOC 4191/G Seminar in Non-Profit Organizations** 3 cr.  
Prerequisite: Consent of the Department. The course is designed to prepare students for internships and ultimate employment in non-profit organizations. The course will introduce the non-profit sector and locate it between government and the for-profit sector. The emphasis is on problem solving in the non-profit sector, including areas such as finance, personnel, marketing, and management of a simulated organization.
- SOC 4192/G Practicum in Non-Profit Organizations** 1 cr.  
Prerequisite: consent of department. This practicum explores strategic planning, marketing, and communication within non-profit organizations and the particular challenges involved in the non-profit sector. Course may be repeated twice for a total of three credits. One hour of lecture and laboratory.
- SOC 4216/G Advanced Social Psychology** 3 cr.  
Prerequisite: six hours in sociology. Current theoretical and research problems in social psychology from a sociological perspective. Review of traditional areas such as socialization, perception, role attitudes, and group dynamics. Emphasis on new developments in socio- and psycho-linguistics, information theory, participation, observation, and experimental methods.
- SOC 4218/G Power, Surveillance, and Control** 3 cr.  
Prerequisite: SOC 1051 or consent of department. An examination of formal and informal mechanisms of social control, types of social power, and surveillance techniques. Students are introduced to social theories which offer contrary positions on the questions of whether control is necessary to protect individuals in a society from the harmful actions of others, or whether control is means by which the powerful protect their privilege. Other topics covered include the distribution of power resources and the implication of this for different groups' ability to influence social policy, the nature of propaganda, subtle forms of control achieved through the manipulation of physical space, and the increasingly sophisticated nature of surveillance technology.
- SOC 4219/G Social Deviance** 3 cr.  
Prerequisite: six hours in sociology. A survey of theory and research on the violation of social norms and laws. Primary emphasis is on social phenomena influencing conformity and deviance, together with institutional responses to individual and group deviance.

- SOC 4788/G Social Statistics II** 3 cr.  
Prerequisite: SOC 2707 or equivalent. An exploration of intermediate level multivariate statistical techniques for analyzing sociological and other social science data. Topics include analysis of variance and co-variance, correlation, regression analysis, causal models and specialized topics in multivariate statistical methods.
- SOC 4871/G Sociology of the Environment** 3 cr.  
Prerequisite: SOC 1051, or consent of instructor. In-depth examination of the social dimensions of one to several environmental issues of contemporary relevance. Examples of the kinds of topics which will be covered include: biodiversity and species preservation; comparative cultural beliefs and values about the environment; conservation of wilderness areas and other environmental amenities; renewable energy and resource supplies; risk management; sustainable development; and technological controversies. The examined topics will be used as a venue through which to introduce students to an array of sociological concepts and theories about the human society-environmental interface.
- SOC 4881/G The Urban Community** 3 cr.  
An analysis of the major subcommunities and subcultures to be found in any large urban complex. Special attention will be given to neighborhoods, ethnic and racial groups, suburbs, and religious and occupational subcultures.
- SOC 4882/G Urban Issues: Planning and Social Policy** 3 cr.  
This course will deal with theory, policy, and methods in urban planning. It will also focus on special issues of contemporary problems, such as housing, urban renewal, and regional government.
- SOC 4903/G Population Issues and Dynamics** 3 cr.  
Prerequisite: SOC 1051 or consent of department. An examination of social demography, with emphasis on the development of the theories and methods used to examine transitions in fertility, mortality, and migration, and their impact on population growth, distribution, and composition. Other foci include the debates regarding the relationship between population growth and economic development, resource depletion, and environmental degradation, and the policy implications of the various positions taken.
- SOC 4911/G Drugs and Society** 3 cr.  
This course approaches the subject of drugs from a multidisciplinary perspective, with attention given to the biological, psychological, sociological, and educational implications of drug use and abuse in American society. Special concern will be given to the analysis of the values as they relate to the development and elaboration of subcultures and countercultures whose lifestyles reflect the use of and/or dependency upon drugs.
- SOC 4915/G Black Women and Violence** 3 cr.  
This course surveys significant issues related to violence against women of African descent. Using a sociological approach that is largely structural and social-psychological, students examine the causes and consequences of sexual and domestic violence in the lives of Black women, and Black women's response to such violence. Most important, violence against women and the social structures that contribute to it are not studied in isolation from other social problems, but are discussed in relation to race and class-based forms of oppression and inequity. The course issues and subjects are approached from a perspective that connects theory to practice and action.
- SOC 4921/G Criminology** 3 cr.  
Prerequisite: SOC 1051 or consent of department. An analysis of causes, consequences, and control of crime in American society. Special attention is given to the theoretical explanations of crime and the special methodological problems in studying criminal behavior.
- SOC 4954/G Juvenile Delinquency** 3 cr.  
Prerequisite: SOC 1051 or consent of department. An examination of the theoretical approaches to juvenile delinquency, alternative treatment programs, and the juvenile justice system, with primary focus on modern American society.
- SOC 6096 Sociology in Applied Settings** 3 cr.  
Prerequisite: SOC 6783, 6784 and consent of department. These two courses constitute a graduate internship where the graduate intern works in a public or private agency or organization a minimum of eight hours a week. The purpose is to apply sociological theory and methods to evaluate a particular problem or to assess the impact of proposed organizational changes or policies. The focus of the course is to produce an applied research paper, prepared under the direction of a graduate faculty advisor and a two-person committee. See program requirements for more details. No more than six hours in 6096-6097 may be counted for the degree, and a student may not count hours in both the 6096-6097 sequence and Sociology 7000 for the Master of Arts degree in Sociology.
- SOC 6097 Sociology in Applied Settings** 3 cr.  
Prerequisite: SOC 6783, 6784 and consent of department. These two courses constitute a graduate internship where the graduate intern works in a public or private agency or organization a minimum of eight hours a week. The purpose is to apply sociological theory and methods to evaluate a particular problem or to assess the impact of proposed organizational changes or policies. The focus of the course is to produce an applied research paper, prepared under the direction of a graduate faculty advisor and a two-person committee. See program requirements for more details. No more than six hours in 6096-6097 may be counted for the degree, and a student may not count hours in both the 6096-6097 sequence and Sociology 7000 for the Master of Arts degree in Sociology.
- SOC 6098 Special Topics in Sociology** 3 cr.  
Selected topics pertinent to research and theory development in sociology are investigated with and emphasis on their relevance in contemporary society. The course may be repeated for credit.
- SOC 6103 Race and Ethnicity** 3 cr.  
This course provides an overview of the sociology of race and ethnicity. Topics are addressed through history, theory, social policy, and current issues.
- SOC 6105 Seminar: Complex Organization and Bureaucracy** 3 cr.  
Analysis of the characteristics of the major types of large-scale, bureaucratic organizations found in contemporary industrial society, emphasizing the special common features of human organizations which cut across the many types of organization life.
- SOC 6107 Sociological Perspectives on Gender** 3 cr.  
Prerequisites: SOC 4086 or equivalent. This course is an advanced graduate seminar that examines a variety of theoretical perspectives in the social construction of gender and the applications of these perspectives to empirical research. Methodological issues and controversies involved in the study of gender are also explored. Throughout the course, emphasis will be placed on the impact of race, ethnicity, age, and sexual preference on gender relations.
- SOC 6396 Independent Readings in Sociology** 1 cr. min./3 cr. max.  
Offered each semester. Prerequisite: consent of department. Amount of credit to be determined at the time of registration. This course will consist of readings, conferences, reports, and research papers under the direction of a member of the graduate faculty. Total credit which may be accumulated in 6396, 6397, and 6398 is limited to six hours. Section number will correspond with credit to be earned.

- SOC 6397 Independent Readings in Sociology** 1 cr. min./3 cr. max.  
Offered each semester. Prerequisite: consent of department. Amount of credit to be determined at the time of registration. This course will consist of readings, conferences, reports, and research papers under the direction of a member of the graduate faculty. Total credit which may be accumulated in 6396, 6397, and 6398 is limited to six hours. Section number will correspond with credit to be earned.
- SOC 6398 Independent Readings in Sociology** 1 cr. min./3 cr. max.  
Offered each semester. Prerequisite: consent of department. Amount of credit to be determined at the time of registration. This course will consist of readings, conferences, reports, and research papers under the direction of a member of the graduate faculty. Total credit which may be accumulated in 6396, 6397, and 6398 is limited to six hours. Section number will correspond with credit to be earned.
- SOC 6573 Social Psychology** 3 cr.  
(SOC 6573 and PSYC 6400 are cross-listed) Prerequisite: consent of department. Analysis of the relationship between human behavior and social context, emphasizing the impact of social forces on social action and cognition. Topics include theoretical paradigms in social psychology, language use and interaction, small groups, self and identities, collective behavior, attitudes and behavior. Critical analysis of existing theory and research methodology will be considered for each topic.
- SOC 6783 Advanced Sociological Theory** 3 cr.  
Prerequisite: SOC 4086. A critical and analytical study of the major theoretical perspectives in contemporary sociology emphasizing the specific concepts and issues as well as ways these theories have shaped and guided social research.
- SOC 6784 Methods of Sociological Investigation** 3 cr.  
A study of the principle methods of social science research with the purpose of developing students' ability to conduct research and be critical users of professional research.
- SOC 6785 Seminar in Research Applications** 3 cr.  
Prerequisites: SOC 4788 6783 and 6784 or consent of department. The course provides graduate students advanced instruction in research design and analysis. It examines the types of validity claimed by sociological knowledge, covers research design and analytical methods, and culminates in a specific thesis proposal from each student.
- SOC 6788 Qualitative Methods in Sociology** 3 cr.  
This course examines qualitative research methods in sociology, focusing on participant and nonparticipant observation, in-depth interviewing, and the use of documents as data. Attention is paid to the sociological analysis of qualitative data and how qualitative research is written for publication.
- SOC 6813 Urban Sociology** 3 cr.  
An overview of theory and research on urban issues from a sociological perspective.
- SOC 6814 Seminar in Sociology of Development** 3 cr.  
This course offers advanced instruction in the sociology of development using a comparative cross-national perspective. It examines various theoretical and methodological approaches to the study of societal development, as well as the implications of diverse development strategies for developed and underdeveloped countries. The social, institutional, and historical factors and processes affecting national development will be addressed.
- SOC 6816 Seminar on Sexualities** 3 cr.  
This course studies the sociological study of sexuality. Topics covered include theories of sexuality, sexual bodies, sexual identities and communities, sexual politics and social institutions.
- SOC 6871 Environmental Analysis** 3 cr.  
Prerequisite: URBN 6850 or consent of coordinators. An investigation of environmental problems from a sociological perspective, with an emphasis on environmental analysis, management, and policy.
- SOC 7000 Thesis Research** 1 cr. min./9 cr. max.  
Offered each semester. To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.
- SOC 7040 Examination or Thesis Only No credit** 0 cr.  
Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

## Spanish

Placement of students with high school preparation in Spanish: students with sufficient preparation in French may enter the second, third, or fourth semester course in that language, thus completing the foreign language requirement in fewer semesters. Students interested in taking placement tests should contact the Foreign Language departments. Language courses in the 1001, 1002, 2001, 2002 sequence must be taken in that order.

- SPAN 1001 Basic Spanish I** 3 cr.  
Offered each semester. A sequence of courses developing all four language skills: speaking, understanding, writing, and reading. The course includes the presentation and discussion of cultural material such as magazines, films, records, and other audio-visual items when feasible.
- SPAN 1002 Basic Spanish II** 3 cr.  
Prerequisite: SPAN 1001. A continuation of SPAN 1001.
- SPAN 2001 Intermediate Spanish I** 3 cr.  
Prerequisite: SPAN 1002 or consent of department. Continuation of the development of all four language skills: speaking, understanding, writing, and reading. The course includes the presentation and discussion of cultural material such as magazines, films, records, and other audio-visual items when feasible.
- SPAN 2002 Intermediate Spanish II** 3 cr.  
Prerequisite: SPAN 2001 or consent of department. Readings and exercises in Spanish. Special emphasis on comprehension as well as oral and written expression in the language.
- SPAN 2003 Basic Spanish for Hispanic Students** 3 cr.  
Prerequisite: consent of department. Reading, writing, and vocabulary-building exercises especially prepared for the student whose home language is Spanish.
- SPAN 2004 Intermediate Spanish for Hispanic Students** 3 cr.  
Prerequisite: Spanish 2003 or consent of department. Reading, writing, and vocabulary-building exercises especially prepared for the student whose home language is Spanish.
- SPAN 3002 Phonetics** 3 cr.  
Phonetic principles applied specifically to an analysis of the phonetic system of Spanish. Intensive practice in the language laboratory, ear training, transcriptions, and corrective exercises.

- SPAN 3005 Romance Linguistics** 3 cr.  
(SPAN 3005 and FREN 3005 are cross-listed) Comparative study of the history, phonology, morphology, and syntax of the principal Romance languages.
- SPAN 3031 Spanish Conversation** 3 cr.  
Prerequisite: SPAN 2002 or consent of department. Conversation, oral discussions, interpretations and reports, practicing the spoken language. Not open to native speakers of Spanish. Native speakers majoring in Spanish must substitute three hours at the 3000 level or above.
- SPAN 3041 Advanced Spanish Grammar** 3 cr.  
Fall semester. Intensive study of Spanish grammar and syntax. This course is designed primarily for prospective teachers and students concentrating in the language.
- SPAN 3042 Advanced Spanish Composition and Syntax** 3 cr.  
Spring semester. Prerequisite: SPAN 3041. Drill in original descriptive and narrative composition in the language with attention to style, syntax, idioms, and verb forms.
- SPAN 3055 Introduction to the Analysis and Interpretation of Spanish Literature** 3 cr.  
A study of techniques of literary analysis particular to each of the major genres with readings and discussion of representative works.
- SPAN 3100 Survey of Spanish Literature I** 3 cr.  
Fall semester. A study of Spanish literature from its beginnings to the eighteenth century. Classes conducted in English. Additional work done in connection with this course may be used by Spanish majors to fulfill the Liberal Arts oral proficiency requirement.
- SPAN 3101 Survey of Spanish Literature II** 3 cr.  
Spring semester. Continuation of SPAN 3100. Study of the main authors and literary movements from the eighteenth century to the present. Classes conducted in English. Additional work done in connection with this course may be used by Spanish majors to fulfill the Liberal Arts oral proficiency requirement.
- SPAN 3191 Independent Work** 1 cr.  
Prerequisite: consent of department. Readings, conferences, and papers under the direction of a member of the faculty. The course allows the student to correlate and supplement the work covered in the departmental courses. Each course may be repeated but combined credit may not exceed six semester hours.
- SPAN 3192 Independent Work** 1 cr.  
Prerequisite: consent of department. Readings, conferences, and papers under the direction of a member of the faculty. The course allows the student to correlate and supplement the work covered in the departmental courses. Each course may be repeated but combined credit may not exceed six semester hours.
- SPAN 3193 Independent Work** 1 cr.  
Prerequisite: consent of department. Readings, conferences, and papers under the direction of a member of the faculty. The course allows the student to correlate and supplement the work covered in the departmental courses. Each course may be repeated but combined credit may not exceed six semester hours.
- SPAN 3194 Internship in Spanish** 1 cr.  
Prerequisite: consent of Spanish undergraduate coordinator. The internship project will receive written evaluation from the outside supervisor of the project and from the undergraduate coordinator. A student may earn no more than a total of three credits in the undergraduate curriculum for an internship project or projects. Students receiving three credits will work a minimum of eight hours per week; two credits, six hours per week; one credit, three hours per week.
- SPAN 3195 Internship in Spanish** 1 cr.  
Prerequisite: consent of Spanish undergraduate coordinator. The internship project will receive written evaluation from the outside supervisor of the project and from the undergraduate coordinator. A student may earn no more than a total of three credits in the undergraduate curriculum for an internship project or projects. Students receiving three credits will work a minimum of eight hours per week; two credits, six hours per week; one credit, three hours per week.
- SPAN 3196 Internship in Spanish** 1 cr.  
Prerequisite: consent of Spanish undergraduate coordinator. The internship project will receive written evaluation from the outside supervisor of the project and from the undergraduate coordinator. A student may earn no more than a total of three credits in the undergraduate curriculum for an internship project or projects. Students receiving three credits will work a minimum of eight hours per week; two credits, six hours per week; one credit, three hours per week.
- SPAN 3197 Demonstration of Oral Proficiency** 1 cr.  
The course is to be taken concurrently with SPAN 3055, 3100, or 3101. The student will be required to present a detailed "explication de texte" to the professor teaching the course and conduct a discussion with the professor related to the chosen text and receive a pass/fail grade. Successful completion of this course satisfies the general degree requirement for oral competency.
- SPAN 3199 Independent Work for Honors Students** 3 cr.  
Prerequisite: consent of department and Director of the University Honors Program. Directed research culminating in a written thesis to meet the requirements for graduation with Honors in Spanish, and if appropriate, University Honors.
- SPAN 3271 Spanish-American Civilization** 3 cr.  
A study of Spanish-American civilization: history, social, organization, and culture. Open to all students with a reading knowledge of Spanish equivalent to completion of SPAN 2002 or 2012. Discussions in English.
- SPAN 3402 Masterpieces of Spanish and Spanish-American Literature in Translation** 3 cr.  
(Open to all students, including Spanish and Spanish Education majors, for degree credit as an elective.) Different Spanish or Spanish-American works in translation are chosen each time for reading, analysis, and discussion.
- SPAN 3406 The Romance Cultures of New Orleans** 3 cr.  
Cross listed with SPAN 3406) Prerequisite: FREN 2002 or consent of department. A study of the Romance languages used in New Orleans and Louisiana, such as French (Creole and Cajun), Spanish (including the Islesnos), and Italian (including the Calebro-Sicilian dialect), as well as the popular culture based on them: poetry, songs, story-telling and customs for festivals. Taught in English.
- SPAN 3500 Tutorial for Graduating Majors** 1 cr.  
This course prepares majors for the completion of their requirements for the B.A. in Spanish. A designated professor will serve as advisor. The course consists of a review of the subjects covered in other required courses, in literature, language/linguistics and civilization. The course concludes with the Written Exit Exam, a comprehensive two-hour exam in Spanish. Prerequisite: 100 hours of course work. Tutorial format. Pass/Fail.
- SPAN 4007/G Spanish Dialectology** 3 cr.  
A study of the phonology, morphology, syntax, and vocabulary of the different regions of the Spanish-speaking world.

- SPAN 4015/G History of the Spanish Language** 3 cr.  
A general survey of the development of the Spanish language from its beginnings to the present day with particular attention to the phonology, morphology, and syntax of old Spanish.
- SPAN 4031/G Advanced Spanish Conversation** 3 cr.  
Prerequisite: SPAN 3031 or equivalent. Intensive practice in the spoken language: conversation, oral discussions, interpretations, and reports. Conducted in Spanish. Native speakers may enroll with the instructor's prior approval.
- SPAN 4041/G Problems of Grammatical Analysis** 3 cr.  
Prerequisite: SPAN 3041 or equivalent. Problems of grammatical analysis and contrastive stylistics are discussed on a basis that combines traditional approaches and more recent theories. Application in translation exercises, from and into Spanish, and introduction to literary translation.
- SPAN 4051/G Business Spanish** 3 cr.  
Prerequisite: language proficiency at the 2002 level. Study of fundamental sentence structure and specialized terminology and idioms related to business needs and correspondence. Practice in standard business correspondence. Oral exposés and conversations dealing with standard business situations and Spanish economies. Readings from current magazines in economics and international business.
- SPAN 4110 Medieval Spanish Literature** 3 cr.  
Readings in the principal genres from the beginnings to 1500.
- SPAN 4110/G Medieval Spanish Literature** 3 cr.  
Readings in the principal genres from the beginnings to 1500.
- SPAN 4122/G Spanish Literature of the Golden Age** 3 cr.  
Studies in the chivalric, pastoral, and picaresque prose of the sixteenth and seventeenth centuries (with emphasis on Cervantes) and the Spanish "codedia" (lope de Vega, Tirso de Molina, Calderon de la Barca).
- SPAN 4140/G Spanish Literature from 1700 to 1850** 3 cr.  
Representative writers of the period with particular stress on literary currents
- SPAN 4155/G Spanish Literature of the Late Nineteenth Century** 3 cr.  
Representative writers of the period, including the generation of 1898, with particular stress on literary currents.
- SPAN 4172/G Spanish-American Prose** 3 cr.  
A course in prose literature from the early chronicles to the twentieth-century narratives, special novelists or groups of novels on a similar theme will also be included.
- SPAN 4180/G Modern Literature in Spanish** 3 cr.  
A Study of peninsular and Spanish-American authors, with emphasis on the "Modernista," the "avantgarde," and the Civil War period.
- SPAN 4201/G Spanish Civilization I** 3 cr.  
A study of Spanish culture and civilization (history, fine arts, music, architecture, history of ideas, national character, etc.) from its origins through the reign of Ferdinand and Isabella. Readings and discussions in Spanish.
- SPAN 4202/G Spanish Civilization II** 3 cr.  
A continuation of SPAN 4201 stressing the cultural history of Spain from the Habsburg dynasty to the present day. Readings and discussions in Spanish.
- SPAN 4203/G Spanish American Civilization I** 3 cr.  
Study of Spanish American culture and civilization (history, fine arts, music, architecture, history of ideas, etc.) from pre-colonial to the modern period. Readings and discussions in Spanish.
- SPAN 4204/G Spanish American Civilization II** 3 cr.  
Study of Spanish American culture and civilization (history, fine arts, music, architecture, history of ideas, etc.) from the modern period to the contemporary period. Readings and discussions in Spanish.
- SPAN 4265/G Contemporary Spanish Culture** 3 cr.  
A study of Spanish intellectual and cultural life today: social, economic, and geographical factors; the country and its attitudes. Conducted in Spanish.
- SPAN 4400/G Children's Literature in Spanish** 3 cr.  
A study of the cultural heritage of stories songs rhymes and games. Selection evaluation and use of books and materials for children.
- SPAN 6003 Spanish "Comentario de texto"** 3 cr.  
The theory and practice of "comentario de texte"—textual exegesis—in Spanish. In addition to purely literary texts the method of "comentario de texte" will be applied to other kinds of writing.
- SPAN 6007 Spanish Linguistics** 3 cr.  
Advanced study of Spanish phonology, morphosyntax, and semantics within the framework of recent linguistic models, including consideration of solution of major descriptive problems proposed from at least 1900 to the present.
- SPAN 6097 Studies in Spanish Linguistics** 3 cr.  
(May be repeated once for credit.)
- SPAN 6190 Studies in Medieval Spanish Literature** 3 cr.  
(May be repeated once for credit.)
- SPAN 6191 Studies in Golden Age Literature** 3 cr.  
(May be repeated once for credit.)
- SPAN 6192 Studies in Spanish Literature 1700-1850** 3 cr.  
(May be repeated once for credit.)
- SPAN 6193 Studies in Spanish Literature 1850-1898** 3 cr.  
(May be repeated once for credit.)
- SPAN 6194 Studies in Spanish Literature of the Generation of 1898** 3 cr.  
(May be repeated once for credit.)
- SPAN 6195 Studies in Contemporary Spanish Literature** 3 cr.  
(May be repeated once for credit.)
- SPAN 6196 Studies in Spanish-American Literature to 1810** 3 cr.  
(May be repeated once for credit.)
- SPAN 6197 Studies in Spanish-American Literature After 1810** 3 cr.  
(May be repeated once for credit.)
- SPAN 6198 Studies in Spanish Literature** 3 cr.  
(May be repeated once for credit.)
- SPAN 6205 Spanish Thought** 3 cr.  
History of ideas in Spain. Study of texts constituting significant contributions to political, social, scientific, religious, philosophical, and aesthetic discourse.
- SPAN 6207 Spanish-American Thought** 3 cr.  
This course examines the evolution of Spanish-American thought with reference to the development of political, economic, social, and cultural institutions. Throughout the course, past developments will be related to contemporary issues.
- SPAN 6265 Contemporary Hispanic Society and Institutions** 3 cr.  
A comprehensive study of Spanish speaking countries today: political, social, economic, and religious institutions, intellectual life, contemporary issues. Topics include: A) Spain; B) Andean countries, (Colombia, Ecuador, Peru, and Bolivia); C) Caribbean (Cuba, Dominican Republic, Puerto Rico, and Caribbean coasts of Venezu-

ela, Colombia, and the nations of Central America); D) River Plate Region (Argentina, Chile, Paraguay, and Uruguay).

**SPAN 6295 Studies in Hispanic Culture and Civilization** 3 cr.  
(May be repeated once for credit.)

**SPAN 6397 Directed Study** 3 cr.  
Readings, conferences, reports, and a research paper under the direction of a member of the graduate faculty. (May be repeated once for credit.)

**SPAN 7000 Thesis Research** 1 cr. min./9 cr. max.  
To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned

**SPAN 7040 Examination or Thesis Only** 0 cr.  
Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

## University Success

**UNIV 1001 University Success** 1 cr.  
Letter-graded course strongly recommended for entering freshmen and transfer students. Students meet in small groups led by an experienced faculty member or senior administrator for an in-depth review of skills and issues relevant to academic and personal success at the University. Topics include time management, effective note-taking and test preparation, campus diversity, and university resources. Enrollment is restricted to students with less than 30 hours of credit, or transfer students within their first two semesters at UNO.

**UNIV 3001 Mentoring For Success** 1 cr.  
Prerequisites: 45 hours of college credit completed, UNIV 1001 preferred, consent of department. The course will develop leadership ability, communication competency, personal and social responsibility, and civic engagement through team building and project management, presentations, journals and reports, mentoring and faculty interaction, and service learning. Students will share their experiences and success with freshman enrolled in UNIV 1001, and will assist in coordinating the service learning project for UNIV 1001 students, with guidance from faculty.

## Urban Studies

**URBN 2890 Special Topics in Urban Studies and Planning** 3 cr.  
Prerequisite: consent of department. A lecture, lecture-laboratory, fieldwork, or seminar format will be used to discuss special topics in Urban Studies and Planning. The course content will vary from semester to semester. May be repeated once for credit.

**URBN 2999 Public Service** 1 cr.  
Offered each semester. Prerequisite: approval of the University Honors Program. Participation in an on-going public service project as an unpaid volunteer to learn about service work. Participants are expected to contribute an average of three hours per week at times mutually agreeable to the individual and the organization.

**URBN 3002 Introduction to Urban Studies** 3 cr.

**URBN 3100 Intermodal Transportation** 3 cr.  
Prerequisite: None. Introduction to the theory and application of intermodal transportation systems nationally and internationally. Topics to be included will include modal interconnectivity, logistics management, intelligent transportation systems applications, federal transportation legislation, transportation security, and statewide intermodal transportation planning and implemen-

tion. The course will include on-site tours of several intermodal transportation facilities.

**URBN 3140 Fundamentals of Environmental Planning** 3 cr.  
This course is designed for undergraduate students and will present the fundamental and contemporary concepts of environmental planning. The course presents both the context within which environmental planning takes place and its structural framework as it relates to scientific research, environmental policy, and future trends. Lectures, examination of local planning efforts, research and in-class discussions will be combined to expand knowledge and interest in the field of environmental planning.

**URBN 3200 Maritime Transportation** 3 cr.  
An introduction to the topic of maritime transportation. It is intended to acquaint the student with a broad range of topics associated with this form of cargo transportation.

**URBN 3300 Introduction to Waterborne Freight Transportation** 3 cr.  
An introduction to the world of international waterborne shipping. The course will provide a broad familiarity with national and international maritime systems. It will be of interest to students seeking a career in fleet and port planning and management.

**URBN 3710 Fundamentals of Urban Design** 3 cr.  
This course provides a combination of lectures, illustrations and hands-on project development opportunities in the field of design. It is basic in nature, tailored to the undergraduate curriculum and promotes the analysis and understanding of urban design issues and projects.

**URBN 3998 Urban Studies and Planning Internship** 3 cr.  
Prerequisite: consent of department. Each semester the department makes available a limited number of planning internships within local government, non-profit organizations and private sector companies in the metropolitan area. Internships provide the opportunity for students to learn about urban studies and planning from the perspective of participating organizations. Interns may be placed during the Fall, Spring or Summer semesters. (May be repeated once for credit for a total of 6 hours).

**URBN 3998 Urban Studies and Planning Internship** 3 cr.  
Prerequisite: consent of department. Each semester the department makes available a limited number of planning internships within local government, non-profit organizations and private sector companies in the metropolitan area. Internships provide the opportunity for students to learn about urban studies and planning from the perspective of participating organizations. Interns may be placed during the fall, spring or summer semesters. May be repeated once for credit for a total of 6 hours.

**URBN 4000/G The New Orleans Metropolitan Region** 3 cr.  
Prerequisite: consent of school. A study of social, cultural, economic, and political history and organization of the New Orleans region from the point of view of systematic social planning.

**URBN 4001/G Comparative Urban Planning** 3 cr.  
Prerequisite: consent of school. An introduction to the development patterns and processes of great cities in a context emphasizing comparisons with New Orleans. The course will focus on the planning issue with which these cities have dealt and look to the future concerns of the city and region with which the planners must reckon. Field work will be an integral part of the course, and will require students to study in the host country. Cities selected for comparative study will be varied to cover North American, South American, Asian, African, and European examples, with one semester devoted to an in-depth study of a particular city. May be repeated once for credit with approval of the school.

- URBN 4002/G The Shape of the City** 3 cr.  
Normally offered in telecourse format. Available for graduate credit with the submission of a term paper. The course focuses on those forces which have impacted and shaped major United States cities since the end of World War II. Comparisons between New Orleans and other major cities are drawn. An active discussion board is maintained on the internet as part of the course, and student participation is expected.
- URBN 4003/G The Post World War II City** 3 cr.  
This is a telecourse with which the student interacts over the internet. It is a survey of some of the major structural and fiscal changes that have impacted the post-war American city. Participation in moderated discussion groups is required. The course can be taken for graduate credit, which requires the student to prepare a term paper.
- URBN 4150/G Planning for Hazards** 3 cr.  
This course examines and analyzes the occurrence, magnitude, and distribution of a broad variety of hazards and discusses appropriate public policy responses in order to protect public safety and to reduce physical and economic damage.
- URBN 4165 Policy Dimensions of Disaster Preparedness** 3 cr.  
This course examines the effects of alternative policy decisions on disaster preparedness. Discussions will be based on disaster policy studies and case studies in hopes of answering such questions as "What is the role of local/state/federal governments in disaster management," "How do key interest groups influence the formulation of disaster policies," and "Do disaster policies differ from other types of policies."
- URBN 4603/G Research in New Orleans History** 3 cr.  
(HIST 4603 and URBN 4603 are cross-listed) Prerequisite: HIST 2603 or HIST 4543 or consent of instructor. A detailed survey of qualitative research techniques, their application to local and urban history, and the preparation of a written project based on primary research in New Orleans history.
- URBN 4670/G Grantwriting for Planners** 3 cr.  
This course will review all aspects of writing grants for public funding through federal, state and local governments and for private funding from corporations, foundations and non-profit organizations. Techniques of grantwriting including grant application preparation, project research, funding authority backgrounds, legal requirements, financial projections and project management will be reviewed. Specific tools such as letters of intent, request for proposals, request for qualifications and public bid responses will be covered in this course along with follow-through aspects of project management, project audits and project scheduling.
- URBN 4800/G Studies in Special Urban Problems** 3 cr.  
Prerequisite: consent of school. This course is a study of urbanization and population the city as a social and cultural environment and social problems of cities.
- URBN 4810/G Environmental Justice in Urban Environments** 3 cr.  
Prerequisites: URBN 4030 or URBN 4140 or consent of college. This course examines the treatment of all groups in the US with respect to benefits and burdens from the development, implementation and enforcement of environmental laws, regulations and processes. Particular emphasis is given to the problems of the disproportionate siting of hazardous waste treatment, storage, disposal, and recycling facilities in poor and minority neighborhoods.
- URBN 4900 Independent Study** 3 cr.  
Prerequisite: consent of school. Independent research under the direction of a designated member of the faculty. May be repeated once. Maximum of six credit hours allowed. Not for graduate credit.
- URBN 6000 Seminal Research in Urban Studies** 3 cr.  
Prerequisite: consent of college. This course is to provide students with an in-depth understanding of a particular facet of the interdisciplinary field of urban studies. It will do so by requiring the students to critically evaluate Seminal works in urban studies. The topic of the seminar will vary from year to year depending on the background and interest of the instructor.
- URBN 6001 Research Methods** 3 cr.  
Prerequisites: None. This course will provide students with an understanding of the research process, research methodologies, and the appropriate application of different research approaches. In addition, students will learn how to evaluate the strength of research findings based on the methods used by the researcher. Topics covered include research design, conceptualization, measurement, sampling, data collection, and research ethics.
- URBN 6005 Statistics for Urban Analysis** 3 cr.  
Prerequisite: PADM 4801. A course in the gathering, structuring, exploration, and analysis of government and private data scores pertaining to American and international urbanization for students who have completed URBN 4801 or who hold equivalent level of computer literacy.
- URBN 6165 Urban Public Policy Analysis** 3 cr.  
Spring semester. Prerequisite: consent of school. A seminar on benefit-cost analysis as applied to decisions of public policy (especially with regard to alternative public projects and programs). Subject matter will include: traditional benefit-cost analysis including notions of present value, externalities, and secondary effects; and extensions of benefit-cost analysis such as the planning balance sheet, goals achievement matrix, and social indicator analysis.
- URBN 6400 Urban Criminal Justice Systems** 3 cr.  
Criminal Justice Planning and Administrative Systems are assessed in the context of the urban environment. The course reviews conventional techniques of crime analysis (and why they fail), the relationship of crime to the growth of a bureaucratic society, and the requirements for planning in such a context.
- URBN 6510 Urban-Rural Issues in Developing Countries** 3 cr.  
Prerequisite: GEOG 4630 or URBN 4030 or consent of department. This seminar will explore the relationship between urbanization and the development process, with primary emphasis on the ways in which the content and outcomes of public policies affect the distribution of population and wealth. Issues to be covered include regional imbalances, migration, labor mobility, and housing.
- URBN 6700 Urban Spatial Analysis** 3 cr.  
Prerequisite: consent of school. This course is designed to familiarize the student with spatial models and geographic techniques of metropolitan area analysis. It includes a systematic study of external and internal spatial relationships of cities and city systems. The urban field is examined in terms of images, patterns, processes, networks, communities, activities, problems, and prospects.
- URBN 6801 Seminar: Urban Analysis-Computers and Simulation** 3 cr.  
Prerequisite: consent of school. This is a methodology seminar in urban research, specifically emphasizing the use of computers and simulation techniques.
- URBN 6871 Environmental Analysis** 3 cr.  
Prerequisite: URBN 6850 or consent of coordinators. An investigation of environmental problems from a sociological perspective,

with an emphasis on environmental analysis, management, and policy.

**URBN 6900 Independent Study** 3 cr.  
Offered each semester. Independent research in the graduate student's area of specialization under the direction of a designated member of the graduate faculty. May be repeated for credit.

**URBN 7000 Thesis Research** 1 cr. min./9 cr. max.  
Offered each semester. To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.

**URBN 7040 Examination or Thesis Only No credit** 0 cr.  
Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

## **Women's and Gender Studies**

**WGS 2010 Introduction to Women's Studies** 3 cr.  
An introduction to the social, historical, and cultural dimensions of women's role in society.

**WGS 2090 Topics in Women's Studies** 3 cr.  
An open topics approach to the role of women. May be repeated once for credit.

**WGS 3090 Internship in Women's Studies** 3 cr.  
Prerequisite: WGS/WS 2010 or consent of the Women's Studies internship supervisor. The intern is placed in a private or public agency in order to gain practical experience in the application of women's studies perspectives and methodologies. Interns usually work eight hours a week at times mutually agreeable to the individual and the agency. In addition, students must meet regularly with a faculty advisor and their work must be evaluated by both an agency supervisor and the faculty advisor.

**WGS 3091 Independent Reading and Research in Women's and Gender Studies** 1 cr.  
Prerequisite: One course from the Women's and Gender Studies approved list and consent of the Director of Women's and Gender Studies. The individual student will be responsible for selection of the area of reading and research. Readings, conferences, and reports or a major research project will be assigned by a member of the Women's and Gender Studies faculty. In no case may a student register for WGS/WS 3091-93 for a total of more than six hours.

**WGS 3092 Independent Reading and Research in Women's and Gender Studies** 1 cr.  
Prerequisite: One course from the Women's and Gender Studies approved list and consent of the Director of Women's and Gender Studies. The individual student will be responsible for selection of the area of reading and research. Readings, conferences, and reports or a major research project will be assigned by a member of the Women's and Gender Studies faculty. In no case may a student register for WGS/WS 3091-93 for a total of more than six hours.

**WGS 3093 Independent Reading and Research in Women's and Gender Studies** 1 cr.  
Prerequisite: One course from the Women's and Gender Studies approved list and consent of the Director of Women's and Gender Studies. The individual student will be responsible for selection of the area of reading and research. Readings, conferences, and reports or a major research project will be assigned by a member of the Women's and Gender Studies faculty. In no case may a student register for WGS/WS 3091-93 for a total of more than six hours.

**WGS 3095 Service Learning in Women's Studies** 3 cr.  
Prerequisite: WGS/WS 2010 or consent of the instructor. This service learning course combines classroom and community learning. All students will participate in projects at one designated community agency while using weekly class meetings to assess the connection between feminist theory and practice.

**WGS 4070/G Special Topics in Women, Literature and Society** 3 cr.  
(WGS/WS 4070, ENGL 4070 and SOC 4070 are cross-listed) Prerequisite: ENGL 2378 or SOC 1051 or WGS/WS 2010 or consent of instructors. A team-taught, interdisciplinary study of women in literature and society. Variable topics include women and crime, women and work, women and the family, women and religion.

**WGS 4078 Researching Women, Gender and Sexuality** 3 cr.  
Prerequisite: WGS/WS 2010 or consent of instructor. An introduction to diverse quantitative and qualitative research methods used in contemporary feminist scholarship. Students will pursue individual projects based on archival collections, published articles, and other primary and secondary sources. The course will familiarize students with local archives and exhibits. Oral reports on research projects will satisfy the university's oral proficiency requirement.

**WGS 4080 Feminist Theory: Perspectives on Gender and Sexuality** 3 cr.  
Prerequisite: WGS/WS 2010 or consent of the instructor. This course interweaves social science and the humanities to examine an array of theoretical perspectives on gender relations and inequalities. We will discuss some of the major issues that have fostered movements for the women's rights, highlighting the relationship between theory and practice. Particular emphasis will be given to the diversity of women's voices and experiences cross-culturally, and to the intersections of gender, race/ethnicity, social class, and sexual orientation.

**WGS 4090/G Variable Topics in Women's Studies** 3 cr.  
Prerequisite: Junior standing or consent of the instructor. Advanced study of women and gender. Topics vary from semester to semester. May be repeated once for credit, for a total of six credits.

# Glossary

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The following are definitions of terms that may be used throughout The University of New Orleans Undergraduate/Graduate Catalog.

**Academic Calendar** The official listing of important dates relative to semester/term start and end dates, deadlines and holidays.

**Academic Load** The total number of semester hours for which a student is registered in one semester or summer term. See “Course Load.”

**Academic Record** A history of all of the courses, credit by examinations, and other equivalent activities a student has taken and the grades he/she has received. See also “Transcript.”

**Academic Year** The period comprised of fall and spring semesters.

**Advanced Placement** Approved admittance into a course beyond entry level as a result of demonstrated subject proficiency.

**Advanced Standing** Academic credit for one or more courses awarded to a student based upon their successful performance on an examination.

**Advisor** A member of the University faculty or staff charged with the responsibility of interpreting academic requirements, developing course schedules, providing academic and career information, monitoring adjustment to college and academic progress and making referrals to other departments and support services based on the student’s needs.

**Approved Elective** Elective that is not open to the free choice of the student.

**Area of Concentration** The primary areas of study.

**Articulation Agreement** Document that identifies courses that may be taken at one institution for degree completion at another institution.

**Audit** To enroll in a course for no credit.

**Auditor** A student who is officially enrolled in one or more courses for no credits.

**Blackboard** A Web-based learning, discussion, and class administration tool designed to provide a secure pre-made Web site for a class.

**Bulletin** A publication coordinated by the Office of the Registrar and the academic colleges that includes a list of courses and sections for a specific semester/term, information about registration, fee payment, student financial aid, the final examination schedule, and the academic calendar.

**Colleges** The academic units of the University that offer academic degree programs; administered by deans and staffed by faculty members. The type of training and the degree anticipated determine the student’s choice of college.

**Concentration** An alternative track of courses within a major, accounting for at least 30 percent of the major requirements.

**Core Requirements** See “General Education Requirements.”

**Co-requisite** A concurrent requirement; usually a course or some other condition that must be taken at the same time as another course.

**Course Load** The number of semester hours a student schedules in a given term.

**Credit**

1. The recognition awarded for the successful completion of course work. Credits are based on the number of times (hours) a course meets in one week during a regular semester.
2. The quantitative measure of recognition given to a course, stated in semester hours.

**Cross-Enrollment** Through separate formal agreements between UNO and Southern University in New Orleans and Delgado and Elaine O. Nunez Community Colleges, UNO students may register for a limited number of classes at each of these institutions when they register at UNO. Students should contact the office of their dean or the Registrar for information regarding the procedures to be followed for this process.

**Cross-Listed** The same course offered under the rubrics of two or more departments.

**Cumulative or Overall Average** A student’s grade-point average, based on the total number of quality points earned and the total number of semester hours attempted. See “Grade Point Average.”

**Curriculum** A description of the required and elective courses for a degree program.

**Curriculum Sheet** A check sheet used by students and advisors to track the student’s progress toward completion of a degree program.

**Degree** The title of the award conferred on students by a college, university, or professional school upon completion of a unified program of study (i.e., Bachelor of Arts—B.A.; Bachelor of Science—B.S.; Master of Science—M.S.; Master of Fine Arts—M.F.A.; Master of Music—M.M.; Doctor of Philosophy—Ph.D., etc.).

**Degree Designation** A degree designation for each authorized program at a public institution of higher education in Louisiana is listed in the Board of Regents’ Inventory. Some programs require the name of the subject area as part of the degree designation (i.e., Bachelor of Interdisciplinary Studies—B.I.S.; Master of Fine Arts—M.F.A., etc.).

**Degree Program** A grouping of campus-approved courses and requirements (i.e., minimum gpa, comprehensive examinations, English and mathematics proficiency, etc.) that, when satisfactorily completed, will entitle the student to a degree from an institution

- of higher education.
- Departments** The academic units of the University within colleges; administered by chairs or directors.
- Distance Learning** Learning that takes place with the instructor and student separated from each other geographically or in terms of time. For example, an instructor may record a video tape or make a streaming media file with learning objectives and planned activities months or weeks before a student accesses the tape or file to learn from it. Distance learning may occur by surface mail, video, interactive or cable TV, satellite broadcast, or any number of Internet technologies such as message boards, chat rooms, and desktop video or computer conferencing.
- Elective** Course chosen by the student, as opposed to required course. The term elective, without a qualifier, will be understood to be a free elective, chosen by the student at his or her option from all the courses offered by the University for degree credit, with due regard for prerequisites.
- Equivalent** When used in a course prerequisite (e.g., Prerequisite: SOC 1051 or equivalent), this term means either credit in a comparable course or adequate preparation by other experience. Determination of equivalency is left to the discretion of individual departments.
- Freshman** A student with less than 30 hours earned.
- General Degree Requirements** Courses and other requirements which must be met by all candidates for any bachelor's degree.
- Good Standing** Students are in good standing if they are eligible to continue or to re-enroll at the University, even if on scholastic probation or on academic warning status.
- Grade-Point Average (GPA)** A measure of scholastic performance; the ratio of quality points earned to semester hours attempted.
- Independent Study** A method of instruction in which studies by individual students are carried on outside the classroom on a topic contracted with an instructor.
- Junior** A student with at least 60 hours of credit earned and less than 90 hours of credit earned.
- Lower Level Undergraduate** courses offered at the freshman and sophomore levels designated by a course number beginning with a 1 or 2.
- Major** The part of a degree program consisting of a specified group of courses in a particular discipline or field. The name of the major is usually consistent with the degree subject area. A major usually consists of 25 percent or more of the total hours required in an undergraduate curriculum.
- Matriculation** The state of being registered for coursework and working toward a specific degree.
- Minor** A student's field of secondary or tertiary academic emphasis. That part of a degree program consisting of a specified group of courses in a particular discipline or field. The minor usually consists of 15 percent or more of the total hours required in an undergraduate curriculum. A minor is an elected emphasis and not required in most programs of study.
- Non-degree seeking** see "Non matriculated."
- Non matriculated** The state of being registered for courses but not working toward a specific degree. Both graduate and undergraduate students may register as non matriculated.
- Placement Test** A test given before a student enrolls in a course (that is one of a sequence of courses) to determine the level at which the student begins.
- Plan** see "Major."
- Pre-professional Program** A non-degree program of study in preparation for entry into a professional degree program at another institution or another division of the University; normally takes from one to three years to complete.
- Prerequisite** The preliminary requirement, usually credit in another course or class level, that must be met before a course can be taken.
- Probation (academic or disciplinary)** A status assigned because of unsatisfactory grades or conduct.
- Proficiency Examination** A test equivalent to a final examination in a college-level course in which a student is required to demonstrate competence to earn academic credit. The test may be given as a final in a course in which a student is enrolled, as a test to validate transfer credit earned at another institution, or as a method for earning credit for a course in which a student is not formally enrolled.
- Program** The college or unit in which a major (plan) is housed.
- Quality Point** Numerical value assigned to each letter grade from "A" to "F," when given as the final grade in a course; provides a basis for quantitative determination of a grade-point average. Quality-point values at UNO are as follows: "A" = 4; "B" = 3; "C" = 2; "D" = 1; and "F," "XF" and "XU" = 0.
- Registration** The process by which a duly admitted student, upon payment of required fees, is enrolled in classes.
- Resignation** The official process by which a student withdraws (drops) from all courses during a university semester or term.
- Section Specific designation (beyond the course number)** of each course offering that distinguishes room location, meeting time, and instructor.
- Semester Hour** The unit by which course work is measured. The number of semester hours assigned to a course is usually determined by the number of hours the class meets per week.
- Seminar** A method of instruction in which a group of students engaged in research or advanced study meets under the guidance of one or more University faculty members for presentation and discussion of approved topics.
- Senior** A student with at least 90 semester hours of credit earned.
- Sophomore** A student with at least 30 semester hours of credit earned and no more than 59 hours of credit.
- Statute of Limitations** A time limit placed on completing a specific degree or process.
- Student Number** A student's UNO number is his/her permanent identification and is unique to that person.
- Student Schedule** The courses in which a student is enrolled.
- Suspension (academic or disciplinary)** A university assigned status that prohibits students from registering for courses for a specified time period. See also "Probation."
- Term Activate** A computer process indicating a student is eligible to enroll for a specific semester or term.
- Transcript** The continuous, formal, and official record of a student's academic work at a university.
- Transfer Student** A student who terminates enrollment in one college or university and subsequently enrolls in this University.
- Upper Level Undergraduate** courses offered at the junior and senior levels designated by a course number beginning with a 3 or a 4.
- Withdrawal** See "Resignation."