

# CREIGHTON UNIVERSITY BULLETIN

## *2007-2008 ISSUE* *UNDERGRADUATE ISSUE*

College of Arts and Sciences  
College of Business Administration  
School of Nursing  
University College

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## ***FIRST SEMESTER, 2005-2006***

**2006**

<b>August</b>	19, <i>Saturday</i>	Welcome Week begins. Activities for all new students, freshmen and transfers, are announced in a special brochure. 7:30 p.m. Welcome Week Mass. St. John's Church.
	21-22, <i>Mon.-Tues.</i>	8:30 a.m.-4 p.m. Late Registration in the Registrar's Office.
	23, <i>Wednesday</i>	Classes begin.
	23-29, <i>Wed.-Tues.</i>	8:30 a.m.-4 p.m. Class Schedule Changes and Late Registration. Registrar's Office.
	29, <i>Tuesday</i>	Last day for late registration and class schedule changes.
<b>September</b>	4, <i>Monday</i>	Labor Day. Holiday - no classes.
	13, <i>Wednesday</i>	Mass of the Holy Spirit. 11 a.m.
	14, <i>Thursday</i>	Last day to change from credit to audit. Last day to apply for Pass/No Pass status.
<b>October</b>	12, <i>Thursday</i>	Last day for filing applications for degrees to be conferred at the end of the First Semester.
	14, <i>Saturday</i>	Fall Recess begins after last class, clinic, or laboratory.
	16, <i>Monday</i>	Mid-semester grade reports from instructors due in Registrar's Office by 9 a.m.
	23, <i>Monday</i>	Classes resume, 7:30 a.m.
	27, <i>Friday</i>	Last day to withdraw from courses with a "W."
<b>November</b>	21, <i>Tuesday</i>	Thanksgiving recess begins after last class, clinic or laboratory.
	23, <i>Thursday</i>	Thanksgiving Day Mass, 9:00 a.m. St. John's Church.
	27, <i>Monday</i>	Classes resume, 7:30 a.m.
<b>December</b>	11, <i>Monday</i>	Final semester examinations begin.
	16, <i>Saturday</i>	Last day of required attendance of First Semester. Christmas—Mid-year Recess begins.
	16, <i>Saturday</i>	Mid-year Commencement.
	20, <i>Wednesday</i>	All regular grade reports due to Registrar's office.

(<http://www.creighton.edu/Registrar/AcademicCalendar>)

## ***SECOND SEMESTER, 2006-2007***

*2007*

<b>January</b>	8-9, <i>Mon.-Tues.</i>	8:30 a.m.-4 p.m. Late Registration in the Registrar's Office.
	10, <i>Wednesday</i>	Classes begin.
	10-16, <i>Wed.-Tues.</i>	8:30 a.m.-4 p.m. Late Registration in the Registrar's Office.
	16, <i>Tuesday</i>	Last day for late registration and class schedule changes.
<b>February</b>	8, <i>Thursday</i>	Last day to change from credit to audit. Last day to apply for Pass/No Pass status.
	11, <i>Sunday</i>	Mass for Founders Week: Past, Present and Future. St. John's Church.
	12, <i>Monday</i>	Last day for filing applications for degrees to be conferred at end of Second Semester.
<b>March</b>	3, <i>Saturday</i>	Spring recess begins after last class, clinic or laboratory.
	5, <i>Monday</i>	Mid-semester grade reports from instructors due to the Registrar's Office by 9 a.m.
	12, <i>Monday</i>	7:30 a.m. Classes resume.
	19, <i>Monday</i>	Last day to withdraw from courses with a "W."
<b>April</b>	5, <i>Thursday</i>	Holy Thursday—classes suspended from 5:00 p.m. April 5 to Monday, April 9
	8, <i>Sunday</i>	Easter Sunday.
	9, <i>Monday</i>	Easter Monday. Classes resume at 5 p.m.
	30, <i>Monday</i>	Final semester examinations begin.
<b>May</b>	5, <i>Saturday</i>	Final semester examinations end. Last day of required attendance of Second Semester except for candidates for degrees.
	9, <i>Wednesday</i>	All regular grade reports due to Registrar's office.
	11, <i>Friday</i>	3 p.m. Baccalaureate Mass.
	12, <i>Saturday</i>	University Commencement.

## ***SUMMER SESSION, 2007***

<b>May</b>	14, <i>Monday</i>	On-campus registration for Pre-session: 8:30 a.m.-4 p.m. Registrar's Office. Pre-Session classes begin 9 a.m.
	15, <i>Tuesday</i>	Last day for Pre-Session registration and course changes.
	18, <i>Friday</i>	Last day to change from credit to audit or apply for Pass/No Pass status for Pre-Session.
	25, <i>Friday</i>	Last day to withdraw from Pre-Session with "W"
<b>June</b>	28, <i>Monday</i>	Memorial Day - No classes.
	1, <i>Friday</i>	Pre-session final examinations; Pre-session ends.
	4, <i>Monday</i>	On-campus registration for Term 1. 8:30 a.m.-4 p.m., Registrar's Office. Term 1 classes meet at regularly scheduled times beginning June 4 at 7:30 a.m.
	6, <i>Wednesday</i>	Pre-Session final grade reports from instructors due to Registrar's Office by 9 a.m.
	7, <i>Thursday</i>	Last day for late registration and course changes for Term 1.
	7, <i>Thursday</i>	Last day for filing applications for degrees to be conferred at end of Summer Session.
	11, <i>Monday</i>	Last day to change from credit to audit or to apply for Pass/No Pass status for Term 1.
<b>July</b>	25, <i>Monday</i>	Last day to withdraw from Term 1 course with a "W"
	4, <i>Wednesday</i>	Independence Day - no classes.
	6, <i>Friday</i>	Final examinations. Term 1 ends.
	9, <i>Monday</i>	Registration for Term 2. 8:30 a.m.-4 p.m., Registrar's Office. Term 2 classes meet at regularly scheduled times beginning July 9 at 7:30 a.m.
	10, <i>Tuesday</i>	Term 1 final grade reports from instructors due to Registrar's Office by 9 a.m.
	12, <i>Thursday</i>	Last day for late registration and course changes for Term 2.
<b>August</b>	16, <i>Monday</i>	Last day to change from credit to audit or to apply for Pass/No Pass status for Term 2.
	30, <i>Monday</i>	Last day to withdraw from Term 2 with "W"
	9, <i>Thursday</i>	Final examinations; Term 2 ends.
	13, <i>Monday</i>	Term 2 final grade reports from instructors due to Registrar's Office by 9 a.m.

(<http://www.creighton.edu/Registrar/AcademicCalendar>)

## ***FIRST SEMESTER, 2007-2008***

2007

<b>August</b>	18, <i>Saturday</i>	Welcome Week begins. Activities for all new students, freshmen and transfers, are announced in a special brochure. 7:30 p.m. Welcome Week Mass. St. John's Church.
	20-21, <i>Mon.-Tues.</i>	8:30 a.m.-4 p.m. Late Registration in the Registrar's Office.
	22, <i>Wednesday</i>	Classes begin.
	22-28, <i>Wed.-Tues.</i>	8:30 a.m.-4 p.m. Class Schedule Changes and Late Registration. Registrar's Office.
	28, <i>Tuesday</i>	Last day for late registration and class schedule changes.
<b>September</b>	3, <i>Monday</i>	Labor Day Holiday - no classes.
	12, <i>Wednesday</i>	Mass of the Holy Spirit. 11 a.m. ( <i>subject to change</i> )
	13, <i>Thursday</i>	Last day to change from credit to audit. Last day to apply for Pass/No Pass status.
<b>October</b>	11, <i>Thursday</i>	Last day for filing applications for degrees to be conferred at the end of the First Semester.
	13, <i>Saturday</i>	Fall Recess begins after last class, clinic, or laboratory.
	15, <i>Monday</i>	Mid-semester grade reports from instructors due in Registrar's Office by 9 a.m.
	22, <i>Monday</i>	Classes resume, 7:30 a.m.
	26, <i>Friday</i>	Last day to withdraw from courses with a "W."
<b>November</b>	20, <i>Tuesday</i>	Thanksgiving recess begins after last class, clinic or laboratory.
	22, <i>Thursday</i>	Thanksgiving Day Mass, 9 a.m. St. John's Church.
	26, <i>Monday</i>	Classes resume, 7:30 a.m.
<b>December</b>	10, <i>Monday</i>	Final semester examinations begin.
	15, <i>Saturday</i>	Last day of required attendance of First Semester. Christmas—Mid-year Recess begins.
	15, <i>Saturday</i>	Mid-year Commencement.
	19, <i>Wednesday</i>	All regular grade reports due to Registrar's office.

(<http://www.creighton.edu/Registrar/AcademicCalendar>)

## ***SECOND SEMESTER, 2007-2008***

**2008**

<b>January</b>	7-8, <i>Mon.-Tues.</i>	8:30 a.m.-4 p.m. Late Registration in the Registrar's Office.
	9, <i>Wednesday</i>	Classes begin.
	9-15, <i>Wed.-Tues.</i>	8:30 a.m.-4 p.m. Late Registration in the Registrar's Office.
	15, <i>Tuesday</i>	Last day for late registration and class schedule changes.
<b>February</b>	10, <i>Sunday</i>	Mass for Founders Week: Past, Present and Future. St. John's Church. <i>(Time to be announced)</i>
	7, <i>Thursday</i>	Last day to change from credit to audit. Last day to apply for Pass/No Pass status.
	11, <i>Monday</i>	Last day for filing applications for degrees to be conferred at end of Second Semester.
<b>March</b>	1, <i>Saturday</i>	Spring recess begins after last class, clinic or laboratory.
	3, <i>Monday</i>	Mid-semester grade reports from instructors due to the Registrar's Office by 9 a.m.
	10, <i>Monday</i>	7:30 a.m. Classes resume.
	20, <i>Thursday</i>	Holy Thursday—classes suspended from 5 p.m. March 20 to Monday, March 24
	23, <i>Sunday</i>	Easter Sunday.
	24, <i>Monday</i>	Easter Monday. Classes resume at 5 p.m.
	24, <i>Monday</i>	Last day to withdraw from courses with a "W."
<b>April</b>	28, <i>Monday</i>	Final semester examinations begin.
<b>May</b>	3, <i>Saturday</i>	Final semester examinations end. Last day of required attendance of Second Semester except for candidates for degrees.
	7, <i>Wednesday</i>	All regular grade reports due to Registrar's office.
	9, <i>Friday</i>	3 p.m. Baccalaureate Mass.
	10, <i>Saturday</i>	University Commencement.

(<http://www.creighton.edu/Registrar/AcademicCalendar>)



## **ADMINISTRATION**

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DEBORAH A. FORTINA	<i>Assistant Vice President for Academic Affairs</i>
KAREN L. GREENE	<i>Assistant Vice President for Operations and Special Projects</i>
KIM B. MANNING	<i>Assistant Vice President for Marketing and Public Relations</i>
COLETTE O'MEARA-HANSON	<i>Assistant Vice President for Academic and E-Learning Technology</i>
REV. THOMAS J. SHANAHAN, S.J.	<i>Assistant Vice President for University Relations</i>
TANYA WINEGARD, M.A.	<i>Assistant Vice President for Student Services/ Student Life</i>
KATHLEEN J. BOOTON	<i>Risk Manager</i>
JOHN A. KRECEK, M.B.A.	<i>University Registrar</i>
FRED J. NESLER, M.B.A.	<i>Budget Director</i>
MICHAEL A. PILLE, B.A., C.P.A.	<i>Controller</i>
ANDREA M. JAHN, J.D.	<i>University Privacy Officer and Associate Counsel to Health Sciences</i>
JIM HOWELL-BURKE	<i>Director of Institute for Latin American Concern (Omaha)</i>
RADALME PEÑA	<i>Executive Director of Institute for Latin American Concern (D.R.)</i>
RICARDO M. ARIZA, M.S.W.	<i>Director of Multicultural Affairs</i>
JOHN T. BAXTER	<i>Director of Environmental Health and Safety</i>
A. JAMES BOTHMER, M.A.L.S.	<i>Director of Health Sciences Library Learning Resource Center</i>

JEFFREY C. BRANSTETTER	<i>Director of Human Resources</i>
JAMES M. BRETL	<i>Director of Career Services</i>
MARY E. CHASE, M.A.	<i>Director of Admissions and Scholarships</i>
KRISTINA A. DeNEVE, Ph.D.	<i>Director of Cardoner</i>
DIANE H. DOUGHERTY, M.A.	<i>Director of Alumni Relations</i>
MICHAEL R. KELLEY., Ph.D.	<i>Interim Director of Counseling and Psychological Services</i>
MARIA TERESA GASTON	<i>Director of Center for Service and Justice</i>
REV. LAWRENCE D. GILLICK, S.J.	<i>Director of Deglman Center for Ignatian Spirituality</i>
AMY M. HADDAD, Ph.D.	<i>Director of Center for Health Policy and Ethics</i>
STEPHEN W. HELD	<i>Assistant Vice President for Information Technology</i>
MARY K. HIGGINS, M.S.	<i>Director of Student Retention</i>
MARIA C. KRANE, Ed.D.	<i>Director of International Programs</i>
BRENDA L. HOVDEN	<i>Director of Library Card Services/Finance Systems</i>
ROWLAND W. HUGHES, B.S.	<i>Director of Skutt Student Center</i>
MICHAEL J. LACROIX, M.L.S., M.B.A.	<i>Director of Reinert Alumni Memorial Library</i>
AUDREY A. LARKIN, M.S.	<i>Finance Officer, Information Technology</i>
ROBERT J. LEAHY, B.S.B.A.	<i>Director of Student Accounts</i>
CHUCK LENOSKY	<i>Director of Learning Environments</i>
LOUIS M. MARCUCCIO	<i>Director of Custodial Services</i>
RICHARD J. MCAULIFFE, M.S.	<i>Director of Public Safety</i>
BRYAN S. McLAUGHLIN	<i>Chief Security Officer</i>
WAYNE A. MORFORD, M.S.	<i>Director of Kiewit Fitness Center</i>
JERRY A. MORGAN	<i>Director of Printing Services</i>
WADE L. PEARSON	<i>Director of Educational Opportunity Programs</i>
BRUCE D. RASMUSSEN, B.S.B.A.	<i>Director of Intercollegiate Athletics</i>
REV. LUIS RODRIQUEZ, S.J.	<i>Director of Pastoral Care, Creighton University Medical Center</i>
DEBRA C. SAURE, B.S., R.N.C.N.P.	<i>Director of Student Health</i>
CONNIE J. SHONKA, B.S.	<i>Director of James R. Russell Child Development Center</i>
REV. DAVID L. SMITH, S.J.	<i>Director of Creighton University Retreat Center</i>
MICHELE K. STARZYK	<i>Assistant Dean of Students</i>
KATHLEEN J. TAGGART, B.S.	<i>Director of Grants Administration; Research Compliance Officer</i>
T. PAUL TOMOSER, B.S.	<i>Director of Internal Audit</i>
JOHN D. WALKER, B.P.S.	<i>Director of Mail Services</i>
ROBERT D. WALKER, M.S.	<i>Director of Financial Aid</i>
LAURA A. WEBER, Ph.D.	<i>Director of Campus Ministry</i>
STEPHANIE R. WERNIG, M.A., Ph.D.	<i>Director of Institutional Research</i>
ELIZABETH H. DAVIES	<i>Webmaster</i>
SHARON HANSON	<i>Senior Women's Administrator</i>
KAREN T. PRIEFERT, D.O.	<i>Medical Director</i>
MARK PATRICK TURNER, LTC	<i>Commandant of ROTC</i>
MARJORIE B. WANNARKA, M.A.	<i>Chairman, Archives Department, Reinert Alumni Memorial Library</i>

## **CREIGHTON COLLEGE OF ARTS AND SCIENCES**

### OFFICERS OF ADMINISTRATION

ROBERT E. KENNEDY, Ph.D., *Interim Dean*  
PATRICIA A. FLEMING, Ph.D., *Senior Associate Dean*  
FRANCIS M. KLEIN, Ph.D., *Associate Dean*  
JACK E. WALSH, Ed.M., M.A., *Assistant Dean*  
ROSE M. HILL, M.P.A., *Assistant Dean*

## **COLLEGE OF BUSINESS ADMINISTRATION**

### OFFICERS OF ADMINISTRATION

ANTHONY R. HENDRICKSON, Ph.D., *Dean*  
RAVI NATH, Ph.D., *Associate Dean*  
JAMES J. KNUDSEN, Ph.D., *Associate Dean*

## **SCHOOL OF NURSING**

### OFFICERS OF ADMINISTRATION

ELEANOR HOWELL, Ph.D., *Dean*  
JOAN F. NORRIS, Ph.D., *Associate Dean for Research and Evaluation*  
LINDA LAZURE, Ph.D., *Associate Dean for Student Affairs*  
MARY KUNES-CONNELL, Ph.D., *Associate Dean for Academic and Clinical Affairs*

## **UNIVERSITY COLLEGE AND SUMMER SESSIONS**

### OFFICER OF ADMINISTRATION

BARBARA J. BRADEN, Ph.D., *Dean*  
MARY E. BESTENLEHNER, B.A., *Assistant Dean*

## GENERAL INFORMATION

Creighton University is by far the most diverse educational institution of its size in the nation. The combination of relatively small size and unusual diversity is the key to appreciation of Creighton University's excellence.

With an enrollment of 6,981 persons taught by 667 full-time faculty and 804 part-time and contributed services faculty, Creighton has set as its goal the conduct of higher education in the context of Christian values.

Founded in 1878, Creighton is coeducational, independent, and has always been operated by the Jesuits in the traditions of that Catholic religious order. Creighton has a faculty and student body made up of individuals of many races and faiths from every geographical region of the United States and from numerous foreign nations.

Creighton is a university in the true sense. In addition to the College of Arts and Sciences, Creighton has a College of Business Administration, University College, Schools of Dentistry, Medicine, Law, Nursing, and Pharmacy and Health Professions, and a Graduate School offering master and doctorate degrees. Creighton has been active in the establishment of continuing education programs and of a Summer Session of modern design for the contemporary educational consumer. The University College offers undergraduate degree and certificate programs for part-time students and specializes in noncredit offerings for adults.

Thirty-seven percent of the University's students are enrolled in the College of Arts and Sciences, 34 percent in the health sciences professions, 10 percent in Business Administration, 4 percent in University College, 7 percent in law, and 8 percent in the Graduate School.

### *LOCATION*

Omaha, Nebraska's largest population center, is located on the western bank of the Missouri River, which serves as the Nebraska-Iowa boundary. Originally settled by the Omaha Indian Tribe, Omaha was soon a favorite stop for early settlers traveling up the Missouri River. Omaha's frontier traditions and values have remained largely intact as the city has progressed into the 21st century. Creighton's 108-acre campus is located on the northwest edge of downtown Omaha, Nebraska.



A center for information technology, telecommunications, transportation and food processing, Omaha, Neb., is the heart of a metropolitan area of about 775,000, with more than 1 million people within a 50-mile radius. The city is the major urban area between Chicago and Denver and between Kansas City and Minneapolis. The metro Omaha area has seen steady growth over the past five decades and is now the 45th largest city and the 61st largest metro area in the nation.

Creighton University is perfectly situated to enjoy both the charm and beauty of the city and its cultural and recreational attractions. The campus is minutes from downtown theater, shopping, government and financial districts; Gene Leahy Mall and the Heartland of America Park, the jewels of downtown Omaha's scenic riverfront development; Henry Doorly Zoo, which features the world's largest indoor tropical rainforest and geodesic desert biodome, a 450,000 gallon walk-through salt water aquarium, and IMAX Theater; and Rosenblatt Stadium, home of the NCAA College World Series and the Omaha Royals.

Omaha, a cultural center of the Great Plains, is home of the world-class Opera Omaha and Omaha Symphony. The Omaha Community Playhouse and Omaha Theater Company For Young People are among the top community theaters in the nation. The Joslyn Art Museum not only displays impressive permanent collections from 19th and 20th century European and American artists, but also schedules five major exhibits and a dozen small presentations each year. One of the nation's finest old-world style theaters, the Orpheum, is home to hundreds of outstanding entertainment events each year and the Durham Western Heritage Museum features some of the area's largest historical offerings.

Creighton, who will host the NCAA College World Series for the 58th consecutive year in June 2007, is an NCAA Division I school which sponsors 14 men's and women's intercollegiate sports and competes in the Missouri Valley Conference. The Creighton Bluejays baseball, basketball, and soccer teams have earned trips to their respective NCAA tournaments in recent years.

Omaha is also the site of a vital downtown area. Omaha's Missouri Riverfront has undergone a massive redevelopment supported by private and public funds and Qwest Center Omaha is home to the Bluejays basketball team. In addition, a recently proposed plan will place an impressive pedestrian bridge spanning the Missouri River from Nebraska to Iowa. The Gallup organization and Union Pacific built their new headquarters here, as did First National Bank, which recently completed the largest tower between Chicago and Denver.

Omaha is served by over 180 regularly scheduled daily flights by nine national air carriers and ten regional airlines. Two interstate highway systems serve the metropolitan area—I-80 going east and west and I-29 north and south.

Many students find inexpensive and charming apartments in renovated historic buildings close to both Creighton and the European allure of "The Old Market," downtown Omaha's shopping and dining quarter. The cost of living in Omaha is less than that of almost any other major city — a comfortable lifestyle is within easy reach.

## *HISTORY*

John and Edward Creighton, builders of the transcontinental telegraph that linked pioneer America, have given their name to the University.

Edward's widow, Mary Lucretia Creighton, carrying out her husband's wishes, left money and directions for establishing a college in his memory. Following her death on January 23, 1876, the present University site was purchased and the first Bishop of Omaha, the Right Reverend James O'Connor, D.D., invited the Jesuits to conduct the Creighton College.

One priest, three scholastics, a layman, and a woman formed the faculty when classes began September 2, 1878. On August 14, 1879, Bishop O'Connor surrendered his trust to a new corporation, "The Creighton University."

Jesuits were exclusive managers of the corporation until, in October 1968, the Board of Directors was expanded to include laypersons. Today twenty-seven laypersons and seven Jesuits conduct the corporate affairs of Creighton University.

The early growth of Creighton University and the enlargement of its endowment were due mainly to the benefactions of John A. Creighton and his wife, Sara Emily Creighton.

### *Colleges of Arts and Sciences*

The College of Arts and Sciences is the University's oldest and largest division. Creighton College was founded in 1878 as a liberal arts college for men. For 40 years the College was conducted without charging tuition. Women began attending teachers' courses in 1923 and University College, a parallel liberal arts division for the education of women, was formally established in 1931. These two liberal arts divisions merged as the College of Arts and Sciences in 1951. A Department of Journalism was part of the College of Commerce for 12 years until 1933 when a separate College of Journalism was established. In 1936 this status was changed to the School of Journalism and in 1948 to the Department of Journalism in the Creighton and University Colleges.

### *College of Business Administration*

On September 20, 1920, Creighton opened the College of Commerce, Accounts and Finance in response to employment requirements of business, industry and government. Four years later the division was renamed the College of Commerce, Finance and Journalism to reflect the addition of that professional department. By 1933 a separate College of Journalism was established; the original division was renamed simply the College of Commerce. In June 1956 the present name, College of Business Administration, was adopted, and in 1960 the University completed the Eugene C. Eppley College of Business Administration building. During the summer of 1996, the building underwent a complete interior and exterior renovation. The classrooms were updated to accommodate the latest in instructional and computer technology.

### *School of Nursing*

Nursing programs began at Creighton in 1928 but it was 1971 before separate divisional status was granted. The program was moved from its status as a department in the College of Arts and Sciences to facilitate a closer relationship between nursing and the other Creighton health professions schools. In 1978 the College of Nursing became the School of Nursing.

### *University College and Summer Sessions*

University College opened in the 1983 Fall Semester. Designed for adult students, the College offers programs of study leading to baccalaureate degrees with majors in the College of Arts and Sciences and the College of Business Administration. Associate degrees can be earned in computer science, emergency medical services, mathematics, organizational communication, spirituality, and theology. Also offered are certificate programs in applied computer science, atmospheric sciences, business administration, computer science, corporate communication, creative writing, environmental science, health administration and policy, human resources administration, interpersonal communication, Irish literature and culture, liturgy, mathematics, ministry, organizational communication, pre-health sciences, psychology, spirituality, theology. Courses are offered in the evenings and early mornings throughout the year, during the traditional fall and spring semesters and during the summer; and most are taught by Creighton's regular faculty.

Creighton undergraduate students are eligible to register for correspondence courses in the University College Independent Study Program with permission of the Dean of their college. The Independent Study Program offers students the opportunity for access to undergraduate Core courses developed by Creighton University faculty members. Correspondence with course instructors is the key to receiving the personalized instruction that is ordinarily given in the traditional college classroom. The minimum course completion time is 12 weeks, and the maximum is six months from the date of enrollment. Normally, Creighton students register for Independent Study Program courses at the beginning of the summer; however, it is possible to register for Independent Study Program courses at any time. The Independent Study Program maintains the same high degree of instructional quality that is maintained in on-campus courses offered at Creighton.

University College also offers noncredit courses, workshops, conferences, and seminars for adults in the Midwest and beyond, continuing the tradition of quality programming of Creighton resources and affiliate instructors in the noncredit area. The focus is on continuing education opportunities including information and skills that are useful in career and professional development; personal growth opportunities; and programs for the contemporary church. Noncredit programs have many formats. Some meet all day; others for two or three hours per week. Courses are held on campus and at off-campus locations to provide easy accessibility for adults.

The Center for Professional Development, a division of University College, provides a variety of non-credit certificate training programs for the Omaha area. Most programs are held at the Creighton West Omaha campus, 11111 Mill Valley Road. Further information available by calling 1-800-637-4279 or at <http://www2.creighton.edu/cpd>.

Summer Sessions joined University College in Spring 1990. Graduate and undergraduate courses are offered during the 13 weeks of summer. Both day and evening classes are available in various formats. In addition to credit courses, a number of noncredit programs are offered. Scattered throughout the summer months are short institutes and workshops, both credit and noncredit.

### *Other Divisions*

Creighton's first master's degree was conferred in 1893, but the Graduate School was made a separate division in 1926. Professional schools and their dates of establishment are the School of Medicine, 1892; School of Law, 1904; School of Dentistry and School of Pharmacy, 1905. In 1982, the Division of Health Professions (formerly attached to the School of Medicine as the Division of Allied Health Sciences) was attached to the School of Pharmacy.

## ***THE JESUIT ORDER AND CREIGHTON UNIVERSITY***

Creighton University, situated in the heart of America, is Jesuit education. Jesuit American education on the secondary level network is all-embracing. Forty-six Jesuit high schools dot our map; one was established in the 18th Century, twenty-four in the 19th Century, and twenty-one in the 20th Century, affecting over 36,500 young men and women of all denominations.

Twenty-eight Jesuit universities flourish from coast to coast, in 2006 enrolling 190,000 collegiate and professional students. The educational opportunities they provide are diverse, but all the institutions share in the Jesuit character and tradition. Why? Because they are staffed by religious and lay colleagues who are imbued with, or attracted by, the educational ideals of St. Ignatius Loyola, founder of the Jesuit Order. Ignatius outlined his principles for broadly-educated and decent people marked by good judgment in his *Ratio Studiorum*, Plan of Studies," written about 1540.



There seems to be an instant bond of camaraderie and identification among graduates of diverse American Jesuit universities and high schools before they have visited together for five minutes. Creighton graduates have commented on this again and again. It is a subtle but real bond that these graduates feel. They are part of a great and satisfying network calculated to prepare them for a full and rewarding life. This Jesuit education is shared with 1,000 other institutions conducted by the total number of 20,408 Jesuits across the world.

American Jesuit Priests and Brothers are active on every front. They are the largest missionary Order in the Catholic Church. Of their 6,000 American Jesuits, every fifth man is in the harvest field of foreign or American mission.

## *GOALS AND OBJECTIVES*

Creighton University exists to educate her students with a view to their intellectual expansion, social adequacy, physical development, aesthetic appreciation, and spiritual enrichment. Creighton serves her publics primarily through teaching and research. Employing the techniques of teaching and research offers numerous other opportunities to provide community services and leadership.

Creighton has behind it a pattern of more than four centuries of Jesuit teaching. The Order's focus has always been on the total person, an approach that includes development of each student's talents to assure that he or she can meet both material and spiritual needs.

Members of every denomination are enrolled in and welcome to all courses in the University. While Creighton fosters learning in a Christian-oriented setting and challenges students to reflect on transcendental truths, students are not required to participate in religious services or activities.

All educational programs of Creighton University are open to both men and women.

The University Assessment Plan has been established to help measure the success of Creighton's academic programs. Each college and school has in place its own appropriate plan to determine student achievement in its programs and to implement changes for continuous improvement in Creighton's assessment plans, and students participate with faculty and administration in striving for improvements in the teaching-learning process. In addition, the University Plan embraces Student Services, and the special areas of cultural diversity and service to others, values which are emphasized in Creighton's Mission Statement.

## *NONDISCRIMINATION POLICY*

Creighton admits qualified students and hires qualified employees without regard to race, color, age, national or ethnic origin, disability, sex, marital status, or religion. Its education and employment policies, scholarship and loan programs, and other programs and activities, are administered without unlawful discrimination. The University is taking affirmative action to employ and advance in employment qualified disabled veterans and veterans of the Vietnam-era. The University Affirmative Action Director has been delegated the responsibility for coordination of the University's equal rights efforts.

It is also the policy of the University to make all programs and services available to individuals with disabilities. To obtain information on accessibility of buildings and programs or to report problems of accessibility, please contact the Office of the Director of Affirmative Action, Room 232, Administration Building or by telephone (402) 280-3084.

## *SERVICES FOR STUDENTS WITH DISABILITIES*

Services for students with disabilities are provided to qualified students to ensure equal access to educational opportunities, programs, and activities in the most integrated setting possible. Students must make timely and appropriate disclosures and requests (at least five weeks in advance of a course, workshop, program, or activity for which accommodation is requested or such other reasonable time as the particular circumstance of a request for accommodation warrants). Requests for reasonable accommodations are encouraged to be made as soon as possible after acceptance. Each student may be required to submit medical or other diagnostic documentation of disability and limitations, and may be required to participate in such additional evaluation of limitations as may appropriately be required by Creighton University or other agencies prior to receiving requested accommodations. The University reserves the right to provide services only to students who complete and provide written results of evaluations and service recommendations to appropriate University personnel. For more information, contact the Dean's Office or the Office of Disability Accommodations at 280-2749.

## *USING CREIGHTON UNIVERSITY'S EMAIL AS THE OFFICIAL MEANS OF COMMUNICATION*

The Creighton University assigned email account shall be the official means of communication with all students, faculty, and staff. All community members are responsible for all information sent to them via their University assigned email account. Members who choose to manually forward mail from their University email accounts are responsible for ensuring that all information, including attachments, is transmitted in its entirety to the preferred account.

All faculty, staff, and students are required to maintain an @creighton.edu computer account. This account provides both an online identification key and a University Official Email address. The University sends much of its correspondence solely through email. This includes, but is not limited to, policy announcements, emergency notices, meeting and event notifications, course syllabi and requirements, and correspondence between faculty, staff, and students. Such correspondence is mailed only to the University Official Email address.

Faculty, staff and students are expected to check their email on a frequent and consistent basis in order to stay current with University-related communications. Faculty, staff, and students have the responsibility to recognize that certain communications may be time-critical.

## *GRADUATION RATES*

Creighton University is pleased to provide the following information regarding our institution's graduation/completion rates. The information is provided in compliance with the Higher Education Act of 1965, as amended. The rates reflect the graduation/completion status of students who enrolled during the 2000-01 school year and for whom 150% of the normal time-to-completion has elapsed.

During the fall semester of 2000, 881 first-time, full-time degree-seeking Undergraduate students entered Creighton University. After six years (as of August 31, 2006) 74% of these students had graduated from our institution or completed their programs. Questions related to this report should be directed to: John A. Krecek, University Registrar, (402) 280-2702.

### **While reviewing this information, please bear in mind:**

- The graduation/completion rate is based on six years of attendance that equates to 150% of our longest program.
- We have elected not to report our transfer-out rate because our university's mission does not include providing substantial preparation for students to enroll in other institutions.
- The graduation/completion rate does not include students who left the school to serve in the armed forces, on official church missions, or in the foreign service of the federal government. Students who died or were totally and permanently disabled are also excluded.

## *ACCREDITATION*

Creighton University is fully accredited by The Higher Learning Commission of the North Central Association of Colleges and Schools, the accrediting agency for the region in which the University is situated.

The College of Business Administration is an accredited member of the Association to Advance Collegiate Schools of Business-AACSB International (graduate and undergraduate programs). The accounting program has been accredited (Type A - baccalaureate) by the Accounting Accreditation Committee of the Association.

The Emergency Medical Services Education Program is fully accredited by the committee on accreditation of Educational Programs for the Emergency Medical Services Professions. The program also is approved by the State of Nebraska.

The School of Nursing offers a baccalaureate program and a graduate program accredited by the Commission on Collegiate Nursing Education. The baccalaureate program also is approved by the State of Nebraska.

The Department of Social Work is an accredited Council on Social Work Education program preparing professional undergraduate social workers.

The teacher education programs of Creighton University are fully accredited by the National Council for Accreditation of Teacher Education for the preparation of elementary, secondary, and special education teachers at the undergraduate level, and for the graduate-level preparation of teachers, school principals and school counselors.

The Schools of Dentistry, Law, Medicine, and Pharmacy and Health Professions are accredited by their respective professional standardizing agencies: American Dental Association, American Bar Association and Association of American Law Schools, Liaison Committee on Medical Education, Accreditation Council for Pharmacy, the American Occupational Therapy Association, and the American Physical Therapy Association.

The University is also approved by and/or a member of the following: American Council on Education, Association of American Colleges and Universities, Association of Catholic Colleges and Universities, Association of Independent Colleges and Universities of Nebraska, Association of Jesuit Colleges and Universities, Council for the Advancement and Support of Education, Council for Higher Education Accreditation, National Association of Independent Colleges and Universities, The Higher Learning Commission, Commission on Accreditation of Allied Health Education Programs, Council for Opportunity in Education, American Association of Colleges for Teacher Education, American Association of University Professors, American Association of University Women, Association of Schools of Journalism and Mass Communication, Association of Independent Liberal Arts Colleges for Teacher Education, Council of Graduate Schools in the United States, Council on Social Work Education, International Association of Catholic Universities, Midwest Association of Graduate Schools, National Association of Educational Broadcasters, National Association for Foreign Student Affairs, National Council for Accreditation of Teacher Education, Nebraska Council on Teacher Education, and Nebraska State Board of Educational Examiners.

### *CAMPUS FACILITIES*

Over 50 buildings make up Creighton's campus providing excellent facilities for most of the University's academic and extracurricular activities. Following two decades of phenomenal expansion and growth, emphasis now is placed on beautification of the central campus, particularly a pedestrian mall which has added green space to the heart of the undergraduate living area. In the last few years, Creighton has added some 20 acres to campus, east and west. The University has \$190 million in new construction, renovation and campus improvements either completed or currently in design.

The University campus is about a 15-minute walk from the business district of Omaha. The principal portion extends from Cass Street on the south to Cuming Street on the north and from 20th Street on the east to 30th Street on the west.

### *CAMPUS DEVELOPMENT*

The most ambitious campus expansion in Creighton's history is under way. The goal is to create a modern urban campus in a garden-like setting and to deliver a cutting-edge learning and living environment to benefit our students. What we will achieve will advance Creighton into the first rank of the nation's faith-based and student-centered universities, with broad-based initiatives to enhance academic excellence, healthcare education, and campus life.

An East Campus Village and Urban Garden helps to relieve campus crowding, contribute to the betterment of our urban neighborhood and keep our campus in pace with the spectacular economic development in the city core and along the Riverfront. Our eastward expansion is a key component of the master plan. Green space, plazas, fountains and distinctive signage will beautify the campus, present a unified image and defined boundaries and create for students a focused residential environment in a thriving urban setting.

This new Village/Garden will also contribute to our mission to educate the whole person – mind, body and spirit. With its pleasant new social and recreational spaces, expanded academic facilities, dining and residence spaces, along with safety and security enhancements, this asset will help us to succeed in providing the finest student support. It will also be a visible sign of our commitment to the betterment of the urban neighborhood, which has accommodated us since 1878.

Located on the far side of the East Campus Village/Garden is our new soccer field and stadium. Our student-athletes who excel in the classroom as well as in athletics will become not just a Creighton team but an Omaha team. The Bluejays' new home matches

their national soccer reputation, providing Omaha with a major new sports venue. Our 5,000-seat stadium is within walking distance for students and Bluejays fans who live and work downtown. It is also home to state and regional tournaments at all levels, including NCAA post-season sports.

### *Health Sciences Facilities*

The Doctor C. C. and Mabel L. Criss Health Sciences Center is made possible largely through the generosity of the late Mabel L. Criss, whose gift commemorates her late husband, Dr. C.C. Criss. Dr. Criss was a Creighton alumnus; the couple founded Mutual of Omaha and United of Omaha.

The Criss Center provides teaching, medical laboratory space, and facilities for the research activities of the faculty of the School of Medicine. Two separate units (Criss II and III) provide classroom and laboratory facilities for instruction of the freshman and sophomore students in the preclinical medical sciences, as well as office and laboratory space for the members of the preclinical faculty. Newly renovated, twin two-level amphitheaters, the connecting link between the two units, form the hub of the academic activities.

The Hixson-Lied Science Building is connected to both Criss and Rigge and provides expansion space for functions of the Vice President of Health Sciences, administration and faculty offices of the School of Pharmacy and Health Professions, offices for the Department of Preventive Medicine, classrooms, common use areas, Arts and Sciences administrative functions, and offices and classrooms for undergraduate science departments.

The space in the existing Criss and Rigge buildings has undergone renovation to provide state of the art research and teaching laboratories.

Creighton University Medical Center, an ultramodern regional health-care facility with state-of-the-art technology, serves as the major affiliated teaching hospital for the Creighton University School of Medicine. Opened in December of 1977, it is located on Creighton's west campus at 30th and California Streets and was one of the largest privately sponsored construction projects in the history of Nebraska.

### *University Libraries ([www.creighton.edu/libraries](http://www.creighton.edu/libraries))*

The libraries of the University and the volumes and microforms they contain are shown below. The totals are exclusive of pamphlets, reports, and similar publications. The Reinert/Alumni Library is the University's main library.

Reinert/Alumni Library	480,702 Volumes	920,814 Microforms
Law	191,945 Volumes	921,078 Microforms
Health Sciences	<u>243,924 Volumes</u>	<u>51,767 Microforms</u>
	916,571 Volumes	1,893,659 Microforms

### *LIVING ACCOMMODATIONS*

Creighton University offers on-campus housing for all full-time matriculated students. All unmarried undergraduate students, from outside the immediate Omaha area (as defined by the University), are required to live in University residence halls the first two years they are at the University. Students from the Omaha area may live in the residence halls. Otherwise, during their first two years at the University, students from Omaha must live with a parent or guardian. A request to be exempt from the residency requirement must be made in writing to the Office of the Associate Vice President for Student Services by July 15th prior to the beginning of the student's classes (December 1 for the Spring Semester). Only the Associate Vice President for Student Services will be able to permit these exemptions. A resident must be a full-time, matriculated student at the University. If space allows, the University may permit housing of part-time students in University residence halls.

The University operates eight residence halls. Deglman, Kiewit, and Gallagher Halls are traditional-style freshman residence halls with common bathroom facilities. Rooms are double occupancy. A limited number of space in Swanson Hall is available to freshman students as well. Swanson is a suite-style hall with four freshman or four sophomore students per suite, while McGloin is also a suite-style with four sophomore students per suite. Kenefick Hall is an apartment-style hall for sophomores, juniors and seniors with efficiency and one-bedroom apartments. All apartments in Kenefick Hall are double occupancy. Davis Square and the new Opus Square, apartment complexes for junior and senior-level students, house students in two, three, or four-bedroom apartments. Heider Hall is an apartment-style residence with efficiency, one-bedroom, and two-bedroom apartments open to students with families or students who have already completed their bachelor's degrees. To reside in Heider Hall and Davis Square, students must sign a 12-month lease. All other halls are contracted for the full academic year, beginning in August and continuing until the end of exams the following May.

The residence hall agreement is for room and board. Only students living in Kenefick, Davis Square, or Heider Hall are not required to be on the board plan. A student requesting to be waived from the board plan for medical or other reasons must furnish documentation to the Associate Vice President for Student Services for Residence Life for review. Generally, the dining services are able to meet most dietary needs. Students may elect either a 19, 15, or 12 meal plan per week. Students in Kenefick, Davis Square, or Heider Hall may elect any of the standard meal plans or the Flex Plan. The Flex Plan allows the student to eat 60 meals during a semester. Board plans are also available to off campus and commuting students.

Meals are served in the Becker and Brandeis dining areas located adjacent to the campus residence halls. Students on the board plans may also have dinner in the Java Jay coffeehouse, Irma's Bistro and C. Jay's in the Student Center as part of the meal exchange program. More information about dining opportunities is available from Sodexo food service located on the lower level of Brandeis Hall.

The annual room and board rates in University residence halls effective August 2006 are:

<b>Building Type</b>	<b>Room</b>	<b>Annual Rate</b>
Deglman, Kiewit & Gallagher Halls (Freshman)	Double	\$4420
	Private	\$6600
Swanson Hall (Freshman and Sophomores)	Double	\$4628
	Private	\$6900
McGloin Hall (Sophomores only)	Double	\$4776
	Private	\$7200
Kenefick Hall (Sophomores, Juniors, and Seniors)	Efficiency apartment	\$4776
	1 Bedroom apartment	\$4850
	Private efficiency	\$7200
Davis Square (Juniors and Seniors)	Apartment (2/3/4 Bedroom)	\$570/m
	Apartment (4 bedroom loft)	\$600/m
Opus Square (Juniors and Seniors)	Apartment (2/3/4 Bedroom)	\$570/m
	Apartment (4 bedroom loft)	\$600/m
Heider (Graduate and family housing)	Efficiency	\$650/m
	Small 1 Bedroom	\$710/m
	Large 1 Bedroom	\$750/m
	Two Bedroom	\$850/m

<b>Board Plans Type</b>	<b>Plan</b>	<b>Annual Rate</b>
	19 Meal and 40 Points Bonus	\$3422
	15 Meal and 100 Bonus Points	\$3422
Available to Heider, Davis, Kenefick and Off-Campus Students Only	Flex - Any 60 meals and 200 Bonus Points	\$1120

New students must apply to the Department of Residence Life for a residence hall reservation. All students pay a damage deposit of \$100. Each semester's tuition, fees, and room and board charges are payable at the time of registration. However, arrangements may be made to pay monthly installments by using the University's Monthly Electronic Transfer (MET) plan (see page 49).

Room and board rates are subject to change without notice. Any special needs as to age or physical condition requiring special housing arrangements will be given full consideration by the Associate Vice President for Student Services. Questions regarding housing services and facilities may be directed to the Department of Residence Life, 136 Swanson Hall; telephone (402) 280-3016.

### ***FAMILY HOUSING***

Creighton University has limited space in the apartment-style Heider residence hall for families. A twelve-month lease is required on all apartments except for those graduating at the end of the current lease. Available for families are the large one-bedroom apartments (655 sq. ft.) and two-bedroom apartments (1215 sq. ft.). There are only four two-bedroom apartments in Heider Hall. Family housing is available on a first-come, first-served basis.

### ***OFF CAMPUS HOUSING***

The Department of Residence Life, 136 Swanson Hall, lists information on rentals in the area of campus. The actual arrangements for housing are left to the individual students. The University is not responsible for the rental agreements between students and their landlords. It is suggested that students set aside several days before registering to search, inspect, and contract for suitable housing.

### ***CHILD DEVELOPMENT CENTER***

Students with children may wish to take advantage of the James R. Russell Child Development Center, which is conveniently located at 2222 Burt Street. The Center has reasonable rates, and can accommodate children ranging in age from six weeks through five years. Call (402) 280-2460 for information.

### ***UNIVERSITY PUBLICATIONS***

*Creighton Today* is produced and distributed each class day to all faculty and staff members of the University. Given priority for inclusion in this employee email newsletter are scheduled campus activities and events; management and human resources communications; papers presented; and academic and research innovations or achievements. Please submit items for publication via e-mail to [bluenews@creighton.edu](mailto:bluenews@creighton.edu) or fax to ext. 2549.

*The Creighton University Bulletin* is published four times annually and is edited by the Registrar's Office. Its purpose is to give the usual catalog information concerning the various colleges and schools of the University and their academic offerings.

*The Creighton University Viewbook* is published annually by the Admissions and Registrar's Offices to acquaint prospective students with Creighton.

*The Creightonian*, the University's weekly student-edited newspaper, serves as an important medium for the university community while at the same time affording students an opportunity for practical journalism experience. A member of the Department of Journalism and Mass Communication faculty serves as advisor to the student staff.

*The Creighton Law Review* publishes quarterly. In accord with law review tradition, this student-edited publication affords additional opportunity for intensive legal research. While publishing the work of mature scholars as the lead articles of each edition, the Review is primarily devoted to the presentation of material produced solely by students of the Creighton University School of Law.

*The Creighton Lawyer* is a magazine with law-related stories, law school news, and alumni information published by the School of Law for alumni, students, faculty, and friends.

*The Medical Dean's Newsletter*, published three times a year for Medical School alumni.

*The Dental Dean's Newsletter*, published three times a year for School of Dentistry alumni.

*The Honor Roll of Donors* is published annually as a report to the University's thousands of financial donors.

*The President's Update* is an electronic newsletter from the President that is published about twice a month.

*Creighton Parent*, a newsletter for parents of Creighton students distributed three times a year.

*The Student Handbook* sets forth University services, rules and regulations pertaining to nonacademic areas of student life. (*Available online only*)

*Student and Faculty Directory* is compiled and distributed annually in the fall by the Creighton Students Union. It contains the names, telephone numbers and addresses of the administrative personnel, the faculty, and students of the University. One copy of the Directory is available to all students with a valid I.D.

*Student Organization Directory* is the official directory for Creighton's registered student organizations. It is available on the Student Activities website at [www.creighton.edu/StudentActivities](http://www.creighton.edu/StudentActivities).

*Creighton University Magazine* is a quarterly magazine produced by the Public Relations Office for alumni, parents and friends of Creighton University. The magazine supports the University's mission of education, while serving as a vital link between the University and its constituents.

*CoBA Update*, published twice a year for College of Business Administration alumni.

*University Facts Card*, annual update of CU Facts brochure, for general information about the University, internal and external use.



## *STUDENT ACTIVITIES*

It is the goal of Creighton University to develop an individual who not only has mastered the content of his or her academic courses, but who also has broad interests and who has developed skills in interpersonal relations. To aid in this process, the University promotes a wide range of student organizations and activities. Students are encouraged to take an active interest in one of more than 180 clubs and organizations, including sports, fraternities and sororities, honor societies, cultural, religious, political, publications, government, professional, academic and service organizations.

For more information and a description of each organization or if interested in starting a new organization, please contact the Student Activities Office in the Student Center or online at <http://www.creighton.edu/studentactivities>.

### *Academic/Interest*

Academic/Interest organizations serve as a forum to explore issues in a particular academic field or area of interest; students do not have to be enrolled in that line of coursework in order to be members of these organizations.

Alpha Kappa Psi: Business	History Club
American Advertising Federation	International Relations Club
American Marketing Association, Collegiate Chapter	Italian Club
Biology Club	Math Club
Creighton Association for Human Resources	Phi Beta Lambda: Business
CU Atmospheric Science Society	Pre-Dental Society
CU Student Nurses' Association	Pre-Law Organization
CU Student Organization of Social Workers	Pre-Medical Society
CU's Mock Trial Team	Pre-Occupational Therapy Club
Environmental Science Club	Pre-Pharmacy Club
Health Administration and Policy Student Association	Pre-Physical Therapy Club
	Public Relations Student Society of America
	Student Education Association of Nebraska

### *Cultural*

Cultural organizations provide an opportunity to explore and celebrate other cultures as well as to increase campus understanding and support. These organizations provide a support network for students from a particular culture as well as educate the campus about that culture.

African American Association	Hui O Hawaii
Chinese Student Association	Indian Cultural Society
CU African-American Student Association	International Student Association
CU Latino Student Association	Native American Association
Gay Straight Alliance	Spanish Club
German-American Club	

### *Government*

Government organizations serve as the governing body of a school, college, group of organizations, or student bodies.

College of Arts and Science Senate	Interfraternity Council
Creighton Medical School Government	Nursing Senate
Creighton Students Union	Panhellenic Council
CU Business Administration Congress	Pharmacy and Health Professions Student Government
Dental Student Union	Student Bar Association
Inter Residence Hall Government	

## *Greek*

Greek organizations are any sororities or fraternities which are primarily social in nature but not professional or honorary.

Delta Zeta

Gamma Delta Pi

Gamma Phi Beta

Greek Endeavor

Kappa Kappa Gamma

Phi Delta Theta

Phi Kappa Psi

Phi Beta Sigma

Pi Beta Phi

Pi Kappa Alpha

Sigma Alpha Epsilon

Sigma Phi Epsilon

## *Honor Society*

Honor societies are organizations with limited membership, where membership is a mark of distinction or recognition of achievements. Membership is usually by invitation only.

Alpha Kappa Delta: Sociology

Alpha Sigma Nu: Jesuit

Beta Alpha Psi: Accounting

Delta Phi Alpha: German

Eta Sigma Phi: Classics

Financial Management Association

Freshman Leadership Program

Kappa Delta Pi: Education

Lambda Pi Eta: Communications

National Residence Hall Honorary

National Society of Collegiate Scholars

Omicron Delta Kappa: Leadership

Order of Omega: Greek Life

Phi Alpha: Social Work

Phi Alpha Theta: History

Phi Lambda Upsilon: Chemistry

Phi Sigma: Biology

Phi Sigma Tau: Philosophy

Pi Mu Epsilon: Mathematics

Pi Sigma Alpha: Political Science

Psi Chi: Psychology

Sigma Pi Sigma: Physics

Sigma Tau Delta: English

Sigma Theta Tau: Nursing

Theta Alpha Kappa: Theology



### *Political*

Political organizations are those that represent political parties, or exist to represent particular political interests.

Amnesty International  
College Democrats  
College Republicans

Creighton Students for Life  
NAACP, College Chapter  
Peace and Justice Cooperative

### *Professional*

Graduate/Professional organizations are those that exist in the Graduate School, Law School, Medical School, Dental School or School of Pharmacy and Health Professions, regardless of other categories under which they could be classified.

Academy of Students Pharmacists  
Alpha Omega Alpha  
American Bar Association  
American Constitution Society  
American Medical Association Medical Student Section  
American Medical Student Association  
American Medical Women's Association  
Asian Pacific American Medical Students Association  
Black Law Student Association  
Body Basics  
Christian Medical and Dental Society  
Creighton Law Ambassadors  
Creighton Law Partners  
CU Medical School OB-Gyn Society  
CU School of Law Environmental Law Society  
CU Student American Physical Therapy Association  
CU Student Occupational Therapy Association  
Emergency Medicine Interest Group  
Federalist Society  
Gay/Straight Law Alliance  
Health Law Society  
Internal Medicine Club  
International Law Society  
J. Reuben Clark Law Society  
Jewish Law Society  
Kappa Psi Pharmaceutical Fraternity  
Latino Law Students Association  
Law School Republicans  
Magis Medical Clinic  
Married to Medicine

Medical Spanish Club  
Medical Students for Life  
Medical Student Cycling Club  
Military Medical Student Association  
Minority Health Sciences Association  
National Community Pharmacists Association  
Neurology Club  
Pediatrics Interest Group  
Phi Alpha Delta: Law  
Phi Delta Chi: Pharmacy  
Phi Delta Phi: Law  
Phi Lambda Sigma: Pharmacy  
Physical Therapy for Pediatrics  
Physical Therapy Leadership Guild  
Pi Theta Epsilon: Occupational Therapy  
Project CURE (Creighton United in Relief Efforts)  
Public Interest Law Forum  
Reproductive Education Through Cultural Awareness  
Republican Law Students  
Rho Chi: Pharmacy  
Sports and Entertainment Law Society  
Sports Physical Therapy Association  
St. Thomas More Society  
Student Empowerment Network  
Student National Medical Association  
Surgery Interest Group  
Vietnamese Student Organization  
Wilderness Medical Society  
Women's Dental Alliance  
Women's Law Students Association

### *Publications*

Publication organizations are those in which the primary purpose is to produce a type of publication.

Shadows

Yearbook - The BlueJay

### *Religious*

These groups are directly affiliated with a religious organization and/or educate about religious beliefs, conduct any religious activities, or foster development of the spiritual self.

Jays for Christ

Rosary Club

Muslim Student Association

Student Jewish Organization

Protestant Student Organization

### *Service*

Service organizations are those that are primarily dedicated to providing improvement, aid or assistance to others on campus or in the community.

Alpha Phi Omega: Service

Knights of Columbus

Best Buddies of America

Magis Ambassadors

Campus Red Cross

Operation Smile

Colleges Against Cancer

Peer Education at Creighton

Habitat for Humanity Creighton Chapter

### *Social*

Social organizations exist to provide various types of social environments and/or activities to the campus and its members.

Birdcage

Ice Cream Club

CSU Program Board

Pep Band

Dance Club

Swing Club

### *Sports*

Sports organizations are those in which the primary purpose is for members to engage or compete in sporting events and/or athletic activities.

Bluejay Billiards Club

Pershing Rifles

Bluejay Lacrosse Club

Rowing Association

Club Hockey

Rugby Club

Dance Team

Shooting Club

Martial Arts Club

Ski Club

Multi-Sport (swim/bike/run) Club

Ultimate Frisbee Organization

Outdoor Adventure Club

## ***CAMPUS RECREATION***

The Creighton Kiewit Physical Fitness Center is located at the heart of the campus and features a pedestrian walk-through with indoor access from four Creighton residence halls.

The main activity area comprises five separate multi-use courts designed for basketball, tennis, volleyball, badminton. This area can be reserved for most special events, space permitting. A track around the periphery permits jogging while the five main courts are in use. All can be viewed from the mezzanine level of the center.

The Fitness Center includes an approximately 25-meter swimming pool with additional shallow area for instruction and a diving area with 11 foot depth. A sundeck adjacent to the pool is available, weather permitting. Men's and women's saunas complement the locker and shower areas, and a whirlpool is located in the pool area.

The Fitness Center also has a 4,000 square foot multipurpose room, four racquetball courts, table tennis, and a weight-training and fitness forum. The Fitness Center offers many aerobics classes and fitness clinics for students and members.

All students are actively encouraged to participate in the myriad of opportunities provided by the facility. Students can also work part-time as lifeguards and in other service positions.

The Creighton Sports Complex, an artificial turf facility is located on the east side of campus. It accommodates two intramural football/soccer fields and numerous other intramural activities. It is also the home field for the Creighton Varsity Baseball and Softball teams.

Creighton's Intramural Sports Program provides leadership in planning and promoting activities of competitive and recreational nature for men, women, and coed groups of students, faculty, staff, and respective spouses. Included are sports activities for teams such as basketball, flag football, volleyball, soccer, and individual/dual events such as tennis, racquetball, and badminton to name a few. Student input is welcomed, and the intramural staff encourages those interested, to become a team captain, official, or supervisor of the intramural program.

There are also several Sport Clubs that provide multiple opportunities for instruction, improvement and/or competition in non-varsity activities such as climbing, dance, ice hockey, karate, lacrosse, racquetball, rowing, rugby, soccer and ultimate frisbee.



## *RELIGIOUS*

Campus Ministry is an important part of our University's mission: Creighton is a Catholic and Jesuit comprehensive university committed to excellence in its selected undergraduate, graduate and professional programs. As Catholic, Creighton is dedicated to the pursuit of truth in all its forms and is guided by the living tradition of the Catholic Church. As Jesuit, Creighton participates in the tradition of the Society of Jesus which provides an integrating vision of the world that arises out of a knowledge and love of Jesus Christ. As comprehensive, Creighton's education embraces several colleges and professional schools and is directed to the intellectual, social, spiritual, physical and recreational aspects of student's lives and to the promotion of justice.

The Campus Ministry staff consists of committed lay people, Jesuit priests, and student interns. We also have chaplains who live in the residence halls in order to be attentive to students' spiritual needs.

Campus Ministry offers a comprehensive retreat program, individual spiritual direction, faith-sharing communities, featured faith and social events, discussion groups, and sacramental preparation through St. John's parish.

St. John's is the symbolic center of the Creighton community in the heart of our campus. Catholic Christians are most welcome to join the parish community as active members. There are many opportunities for students to participate fully as lectors, musicians, or Eucharistic ministers in our regular parish and University liturgies.

Campus Ministry is not just for Catholic students. Campus Ministry provides links for students to religious communities representing their own faith tradition, so they can "grow where they are planted." We believe that one of our most important services is to provide opportunities for our students to become involved or to continue their involvement with a faith tradition and community that worships God in service of the larger community. This includes providing ways for students of diverse faith traditions to come together for inter-faith dialogue, prayer, retreat and service experiences, while exploring their own faith in greater depth.

Campus Ministry collaborates with Creighton's Center for Service and Justice (CCSJ), and the Institute for Latin American Concern (ILAC), helping students experience a special care for the poor, in the context of a faith that does justice, through direct service opportunities. The department also works closely with the Cardoner program, which offers students many ways to connect their deepest desires and gifts to their life's work. Students are welcome to visit the Campus Ministry offices located in St. John's.

## *STUDENT GOVERNMENT*

All full-time students registering in the undergraduate colleges and in the professional schools become voting members of The Creighton Student Union. The affairs of this corporation are managed by members elected from the schools and colleges of the University. This group of student leaders controls the use of the Student Activity Fund, plans the major social events of the year, and operates through standing committees to further the best interests of the University and of her students.

## RECOGNITION OF SCHOLARSHIP AND LEADERSHIP

### *Honors and Prizes*

*Membership in Alpha Mu Gamma*, national collegiate foreign language honor society, for scholastic achievement.

*Membership in Alpha Sigma Nu*, national Jesuit honor society for men and women, awarded on the basis of scholarship, loyalty and service.

*Membership in Beta Alpha Psi*, national honorary accounting fraternity, for excellence in scholarship.

*Membership in Beta Gamma Sigma*, national honor society for men and women in business administration. Members are elected from senior undergraduates who rank in the upper 10 percent of their class, junior undergraduates who rank in the upper seven percent of their class, and Master's students who rank in the upper 20 percent of their class, on the basis of scholastic average for the entire business administration program.

*The Merna L. and Robert F. Allen Prize in Economics*, an award of up to \$1,000 presented by the Department of Economics and Finance to an economics major judged to have written an outstanding paper in Political Economy or Applied Economics.

*The Reverend Raymond J. Bishop, S.J., Award* given annually to the student enrolled in a program in the Department of Education who best reflects Father Bishop's qualities of warmth, caring, dedication to teaching, and also reflects the student's desire to see his or her peers do their best.

*The American Institute of Chemists (AIC) Award* is presented annually by the AIC to the outstanding graduating chemistry major. Choice is made on the basis of scholastic achievement and commitment to the profession of chemistry.

*The American Marketing Association, Marketing Student of the Year Award*, given annually by the Greater Omaha American Marketing Association to a student showing great promise in the field of marketing.

*The Analytical Chemistry Award* is given annually to the outstanding student in the analytical chemistry course sequence.

*The Beta Alpha Psi Regional and National Scholars Certificate*, presented annually by the National Council of Beta Alpha Psi to fraternity members who presented papers at regional or national meetings and who entered the National Manuscript Contest.

*The Beta Alpha Psi Meritorious Service Certificate*, presented annually by the National Council of Beta Alpha Psi to graduating senior accounting majors who have demonstrated outstanding leadership and service to their college and fraternity.

*The Beta Alpha Psi Scholarship Certificate*, presented annually by the National Council of Beta Alpha Psi to the graduating senior accounting majors who are members of Beta Alpha Psi with the highest scholastic average in the College of Business Administration.

*The CRC Freshman Chemistry Award* is given annually to the outstanding student in the general chemistry program.

*The Christian Leadership Award* presented by Campus Ministry for outstanding Christian leadership and service to Creighton University and to the Omaha community.

*Creighton College of Arts and Sciences Senior Award* for excellence in scholarship and outstanding contribution to the College and its mission of education and service to life.

*College of Business Administration Senior of the Year*, recognition given to the outstanding member of the senior class as voted upon by the graduating seniors.

*Membership in the Creighton Honors Program*. Upon successful completion of the Program, students are awarded a plaque at the Senior Awards Ceremony; and the following special awards are also presented in recognition of exceptional performance and service: Dean's Prize Winner, Director's Prize Winner.

*The Pricewaterhouse and Coopers Scholarship* awarded annually to outstanding students in the College of Business Administration who will be in their senior year.

*Membership in Eta Sigma Phi, Latin and Greek Honor Society*, for scholastic achievement.

*The Financial Executive Institute Student of the Year Award*, a gold medallion, annual award to an outstanding finance major who demonstrates the potential for success as a financial executive.

*The Eugene F. Gallagher, S.J. Annual Award*, to the student with the top grade point average in Teacher Education.

*The Thomas A. Grennan Award* is presented annually by the Department of History to outstanding students in core-level courses in African, Asian, Latin American, and Middle Eastern history.

*The Jefferson-Mullen Essay Prize*. Through the generosity of the late Arthur F. Mullen, Sr., of Omaha, an annual award is given in recognition of the best essay submitted on the life or works of Thomas Jefferson. Students from any division of the University are eligible for the competition. For details, contact the Department of History.

*The Fr. Alfred Kaufmann Prize*, an award presented by the Department of History to the student judged to have written an outstanding paper in European History.

*The KPMG Endowed Scholarship*, an annual award to senior accounting majors who have evidenced an interest in public accounting and have maintained a high class average.

*The Francis M. Kraft Awards* are presented annually by the Department of Fine and Performing Arts recognizing outstanding accomplishments by graduating seniors.

*The Eileen B. Lieben Award*, an annual award of up to \$400 and a plaque is given by the Department of History to an outstanding female history major or minor.

*The Nebraska Society of Certified Public Accountants*, annual scholarships are given to senior accounting majors who have evidenced an interest in public accounting, and who have maintained high class averages.

*Nursing Student of the Year*, an award given by the School of Nursing to a senior nursing student for displaying outstanding ability in academic achievement, professional competence, service and spirit.

*Membership in Omicron Delta Epsilon*, honorary economics fraternity, for scholastic achievement in economics.

*The POLYED Award in Organic Chemistry*, sponsored by the Polymer Education Committee of the American Chemical Society, is given annually to the outstanding chemistry major in the organic chemistry course.

*The Joseph Robbie Prizes*, given by the Department of History through the generosity of the late Joseph Robbie to the Department. Annual awards given to the outstanding first year student in each section of the required introductory history course and inscription of the awardees' names on the Joseph Robbie Plaque.



*The Allan M. Schleich Award*, given annually to a student of history, who, in addition to academic excellence, best reflects the exemplary qualities of the late Dr. Allan M. Schleich, Chairman, Department of History, 1963-81. The award includes a stipend, usually not less than \$400, a plaque, and the permanent inclusion of the recipient's name on the Schleich Plaque in the Allan M. Schleich Room.

*Nursing Service and Spirit Award*, an award given by the School of Nursing to a senior nursing student who displays the Creighton spirit through extracurricular activities and service.

*The Father Marion Sitzmann, O.S.B. and the Boniface McGuire Award in Speech and Debate*, awarded annually to speech and debate students who excel in performance at tournaments. Approximately eight awards of \$500 are given annually by the Dean of the College of Arts and Sciences at the spring banquet honoring the recipients.

*The Richard Spillane, S.J., Award*, for Service in Civic Life, is presented to the graduating political science student, who, through excellence in scholarship, personal modesty, and service in community affairs, best reflects the principles of reason, humility, and service that Fr. Spillane exemplified in his lifetime.

*The Spirit of Creighton Award* is a citation conferred on a male and a female student by the President of the University annually at Commencement for demonstrating remarkable initiative and able enterprise, wisdom in action, modesty in achievement, and great personal sacrifice for the good of others.

*The Wall Street Journal Student Achievement Award*, a silver medal and a year's subscription to *The Wall Street Journal*, annual award to a graduating senior economics or finance major with a high scholastic average.

## **THE ALUMNI ASSOCIATION**

The Creighton University Alumni Association was formed in 1892 to provide an organization through which alumni could continue the friendships and associations developed during their student days.

Its mission is "to advance the interests of the Creighton family through a commitment to academic excellence, Judeo/Christian ethics, and a lifelong relationship between Creighton alumni and their University that enriches both."

The administration of alumni activities is handled by the Alumni Relations Office under supervision of the Director of Alumni Relations, as advised by the National Alumni Board. Among the activities sponsored by the Alumni Relations Office are the Hilltop Jam, Get Blue pre-game event, Thanksgiving Day Alumni Mass and Continental Breakfast, alumni club events, and Reunion Weekends for the various Schools and Colleges. A calendar of activities, along with information on the Alumni Association, can be found on the web at <http://www.creighton.edu/alumni>. University representatives frequently attend alumni club get-togethers to which alumni, parents of students, and friends of Creighton University are invited.

Through its alumni clubs, the Creighton Alumni Association has grown over the years to include over 54,000 alumni, parents, and friends.

## INTERNATIONAL PROGRAMS AND SERVICES

Creighton University seeks to provide its students an integrating vision of the world. Through the curriculum, experiences abroad, and on-campus interactions with students, scholars, and staff from around the world, Creighton students have the opportunity to gain the international perspectives and intercultural communication skills necessary for leadership and service in the global community.

### *THE OFFICE OF INTERNATIONAL PROGRAMS (OIP)*

As the focal point and information center for Creighton's international activity, the Office of International Programs provides learning opportunities and services that foster cross-cultural awareness, facilitate intercultural communications, and enhance knowledge about world cultures and societies. It carries out its mission through the administration of various programs and the dissemination of information about all international programs.

Programs and services administered by the OIP include:

- Opportunities abroad for students and faculty
- Linkages with colleges and universities abroad
- International student
  - Recruitment*
  - Admission*
  - Counseling on academic, visa, employment matters*
  - Cultural and social activities*
- Intensive English Language Institute
- Cross-cultural communication programs

In addition, the OIP

- Provides support for internationalizing the curriculum
- Welcomes international visitors
- Organizes events with an international focus

The Office of International Programs is located on Lower Becker. The web site is <http://www.creighton.edu/IntlPrograms>.

### *THE CURRICULUM*

Individual academic departments administer curricula that include many courses with international content as well as majors and minors that cover studies of various areas of the world, such as:

- African Studies
- Asian Studies
- Classical and Near Eastern Studies
- European Studies
- International Business
- International Relations
- International Studies
- Latin American Studies
- Russian Studies

Creighton students may also choose to study one (or more) of these modern languages:

- Chinese
- French
- German
- Italian
- Japanese
- Russian
- Spanish

## ***STUDY ABROAD***

Creighton University offers students a variety of study abroad programs in nearly 40 countries. Programs vary in length, content, format, and cost. Students may choose to study abroad for a summer, a semester, or an academic year. Some programs require an appropriate degree of fluency in the language of the host country while others use English as the language of instruction. Students with a GPA of 2.5 (or higher to meet the requirements of specific programs) may choose to participate in one of Creighton's programs abroad or in a program sponsored by other institutions and organizations in any part of the world.

### ***Encuentro Dominicano***

Located in Santiago, the second largest city in the Dominican Republic, Encuentro Dominicano ("Dominican Encounter") is a semester-long academic living-learning program that integrates community-based learning with traditional coursework in a cross-cultural immersion context. Reporting to the Creighton College of Arts and Sciences and the Department of Residence Life, but enrolling students from any of Creighton's undergraduate colleges and schools, Encuentro Dominicano reflects the Mission of the University, especially its call for participation in the tradition of the Society of Jesus and its integrating vision of the world. As such, it fosters commitment to a faith that promotes justice, service to others, appreciation of ethnic and cultural diversity, stimulation of creative and critical thinking, and provision of ethical perspectives for dealing with an increasingly complex world. For program details see page 130 or consult the website at <http://www.creighton.edu/encuentro>.

### ***Faculty-Led Programs Abroad***

Creighton faculty members offer Summer Travel Courses abroad for either three or six credit hours. Most recently, Creighton students have traveled to China, El Salvador, France, Germany, Greece, Honduras, Ireland, Mexico and Spain. Students interested in Summer Travel Courses should visit the Office of Summer Sessions in Eppley B11 or access [www.creighton.edu/SummerSessions/](http://www.creighton.edu/SummerSessions/) for more information.

### ***Independent Semester and Year Programs***

Students may study at one of 110 partner institutions located in over 40 countries. Students pay Creighton's tuition, fees, room, and/or board to the University and receive the equivalent at a partner institution in:

Argentina, Australia, Austria, Brazil, Canada, Chile, People's Republic of China, Colombia, Costa Rica, Czech Republic, Denmark, England, Estonia, Fiji, Finland, France, Germany, Ghana, Hungary, Iceland, Italy, Japan, Republic of Korea, Latvia, Malta, Mexico, the Netherlands, New Zealand, Nicaragua, Poland, Scotland, South Africa, Spain, Sweden, Switzerland, Thailand, and Uruguay.

Students who do not have sufficient ability in other languages can study at many universities where the language of instruction is English. These universities are located in Australia, Canada, China, the Czech Republic, Denmark, Estonia, Fiji, Finland, Ghana, Hungary, Japan, Korea, Latvia, Malta, the Netherlands, New Zealand, South Africa, Sweden, Thailand and the United Kingdom.

Credit may be earned toward a Creighton degree through an approved program of study abroad. The application process must start early so that all of Creighton's and the program sponsor's deadlines are met. The pre-approval of credits to be earned abroad does not guarantee that credit will be granted; transcripts, actual course descriptions, and other documentation must be submitted to the Office of International Programs upon completion of the off-campus program for final evaluation.

Interested students are encouraged to review materials in the Office of International Programs and to seek the guidance of the study abroad advisor. For the schedule of information sessions, an appointment, and application forms, visit the Office of International Programs in Lower Becker G25, call 402/280-2310, or check our website at [www.creighton.edu/IntlPrograms/](http://www.creighton.edu/IntlPrograms/).

### ***Prestigious Scholarships for Study Abroad***

Among several prestigious scholarships and fellowships available to students, five are for study abroad: Fulbright Grants, Marshall Scholarships, NSEP Scholarships, Rhodes Scholarships and Rotary Fellowships. For more information, visit <http://puffin.creighton.edu/nsafe> or [www.creighton.edu/IntlPrograms/sa\\_scholarships.htm](http://www.creighton.edu/IntlPrograms/sa_scholarships.htm).

### ***THE INTENSIVE ENGLISH LANGUAGE INSTITUTE***

Each year, the Intensive English Language Institute (IELI) offers courses designed to improve the English skills of undergraduate and graduate students who are native speakers of other languages.

#### ***Program Description***

The IELI schedules Fall, Spring and Summer terms. Small classes of no more than 15 students allow for a great deal of individual attention. Listening, Speaking, Reading, Writing and Pronunciation are taught on different levels. A full-time IELI student has between 20 and 24 hours of classes per week. Advanced classes are designed to help students improve critical reading, outlining, writing, notetaking, and decision skills for university-level work. Qualified students may also take one or more regular university courses while enrolled in IELI.

#### ***Entrance Requirements***

The IELI accepts students with intermediate to advanced English language skills. Typically, new students have studied English for four or more years in high school or college and have a minimum TOEFL score of 32 iBT, (97 CBT/ 400 PBT). Applicants should send the official score report of a recent TOEFL or other English proficiency test as part of the application. For more information, contact the Intensive English Language Institute at 402-280-2221, by sending an e-mail to [ieli@creighton.edu](mailto:ieli@creighton.edu), or by accessing the IELI website at [www.creighton.edu/IntlPrograms/ieli.htm](http://www.creighton.edu/IntlPrograms/ieli.htm).

## ADMISSION

It is the admission policy of Creighton University to accept qualified students within the limits of its resources and facilities. See also the University's Nondiscrimination Policy on page 17.

### *FRESHMAN APPLICANTS*

1. Applications can be requested from the Office of Undergraduate Admissions or electronically at <http://admissions.creighton.edu>.
2. Application may be made any time after completion of the junior year in high school, but not later than one month prior to the opening of a term, although the earlier the better. The University reserves the right to return applications for admission prior to the deadline if space for additional students is not available.
3. A non-refundable \$40.00 fee is required for filing a paper application. There is no fee for the online application.
4. An official high school transcript should be sent directly to the Director of Undergraduate Admissions. A Creighton recommendation form must also be completed by your high school guidance counselor. Upon submission, these credentials become the property of Creighton University and will not be returned.
5. Applicants must submit a personal statement. Suggested topics for this are listed on the application.
6. A resume of activities is required if an applicant wishes to be considered for Ignatian Service and Leadership Award.
7. Admission into one of Creighton's undergraduate colleges is a highly individualized process that utilizes national standardized test scores in addition to a comprehensive review of high school performance, extracurricular activities and recommendations.

Toward this purpose we will consider as one factor either the American College Testing Program (ACT) Assessment or the Scholastic Aptitude Test (SAT) Assessment in the review process. Students may apply for admission as soon as they complete their junior year in high school and may apply before the submission of either the ACT or the SAT report.

The ACT or SAT Assessment is used for admission, scholarship, placement, counseling, and for statistical purposes.

When all credentials required through the admissions application have been received, they will be reviewed by the Committee on Admissions. As soon as action has been taken, the applicant will be informed of the decision in writing. All information pertinent to residence hall facilities, registration procedures, and other requirements are sent following letters of acceptance.

## ADMISSION REQUIREMENTS

Admission to undergraduate standing in Creighton as a freshman or as a transfer student may be achieved as indicated below:

1. As a freshman on the basis of:
  - A. Completed application for admission.
  - B. Certificate of graduation from an accredited high school including:
    - (a) Record of subjects and grades indicating academic potential for college success; (b) Personal recommendation from high school counselor. Note: Home schooled students are encouraged to apply for admission and must provide documentation that required high school coursework has been satisfactorily completed.
  - C. Satisfactory ACT or SAT scores.
  - D. Personal statement.
2. As a transfer student on the basis of a transcript of a satisfactory record from a regionally accredited college or university. See regulations under Admission of Transfer Students on page 40. (ACT or SAT scores are ordinarily not required of transfer students who have completed one year of college or 24 semester hours of credit).

An accredited high school is a school accredited by the North Central Association of Colleges and Schools, or the equivalent regional standardizing body, or any school approved by the recognized accrediting agency in its state.

## SUBJECT REQUIREMENTS

The high school graduate applying for admission to college is expected:

1. To be able to write and speak correct, grammatical English.
2. To have completed in an approved high school, the recommended subject requirements shown below.

Strict adherence to the pattern of subject requirements may be waived at the discretion of the Committee on Admissions if the other criteria qualify the applicant.

<b>Subject</b>	<b>High-School Subject Pattern</b>	
	<i>Minimum Required</i>	<i>Highly Recommended</i>
.....Units*	Units*	Units*
English.....	4	4
Algebra.....	1	1
Other Mathematics.....	2	3
Foreign Language.....	2	3
Natural Science.....	2	3
Social Science.....	2	4
Electives.....	3	3
	16	21

\*A unit represents a year's study in any secondary school subject, covering an academic year of at least 36 weeks.

## *REQUIREMENTS FOR ADMISSION TO THE SCHOOL OF NURSING*

High school graduates who are first-time freshmen as well as transfer students wishing to pursue the traditional program of study leading to the degree of Bachelor of Science in Nursing apply to the Undergraduate Admissions Office of the University.

Graduates of diploma or associate degree programs in nursing or students already holding a bachelor's degree in another field refer to the admission requirements on page 242. Additional information may be obtained from the office of the Dean, School of Nursing.

### *ACT/SAT ASSESSMENT PROGRAMS*

Students planning to enter Creighton University as freshmen are required to take the ACT Assessment provided by the American College Testing Program or the SAT Assessment provided by the College Board.

The ACT Assessment, designed for college-bound students, consists of a Student Profile Section, an Interest Inventory, and four academic tests covering the subject areas of English, mathematics, reading, and science reasoning and a test of writing skills. The tests assess general educational development and the ability to perform college-level work. Results of the ACT Assessment are used at Creighton for course placement, advising and counseling, scholarship awards, and admissions and research purposes.

The ACT Assessment is administered annually on up to five national testing dates at test centers throughout the country and overseas. Students planning to enter Creighton University should arrange to take the ACT Assessment and direct that their ACT score report be sent to Creighton. The SAT Assessment is administered annually on up to six national test dates.

#### **Following is the schedule of the regular Saturday test dates for the ACT:**

2006-07 — October 28, December 9, February 10, April 14, June 9.

#### **Following is the schedule of test dates for the SAT:**

2006-07 — October 14, November 4, December 2, January 27, March 10, May 5, June 2.

High-school students may obtain full information from their counselor about the ACT or SAT Assessment, the location of test centers, and how to register for either test.

### *ADVANCED PLACEMENT*

Creighton University encourages prospective applicants to take courses in high school that lead to the Advanced Placement tests administered by the College Board. Regardless of the college or school at Creighton to which students are applying, they should ask the College Board to forward their scores to the College of Arts and Sciences (code 6121). Once the scores have been received, they will be evaluated. Depending on the score attained and the specific AP test taken, Creighton may award credit hours towards graduation either as elective credit or as satisfying course requirements. For details of the most current policies regarding the scores necessary to earn credit in various subjects, please visit the following web page: <http://puffin.creighton.edu/ccas/policies/ceeb.html>.

#### *Other CEEB Advanced Placement and Credit*

Further advanced placement credit may be awarded for successful completion of the CEEB Advanced Placement Examination in Art History, Biology, Chemistry, Computer Science, Economics, Environmental Science, History, Physics, Political Science, and Psychology. However, such awards are not automatic and may involve further departmental testing or evaluation. Credit may or may not be eligible for fulfilling the Core Curriculum requirements. Students who have completed one or more CEEB Examinations and have had the scores sent to Creighton should receive an awarded credit

evaluation a few weeks after Creighton receives the score report. If the outcome of these examinations determines the course(s) for which the students are currently registering, they should contact their dean's office for further information.

### *College Level Examination Program (CLEP)*

Students accepted into a degree program may earn college credit through successful completion of CLEP Subject Examinations. CLEP examinations are administered at testing centers (Creighton University is NOT a testing center) on a regular schedule. Details concerning the award of credit for CLEP examinations are available in the Arts and Sciences Dean's Office.

### *International Baccalaureate*

Creighton University acknowledges the quality of the IB Diploma Program and welcomes applications for admission from students who have excelled in IB courses. Scores of 5 and higher on the higher level examinations will result in the granting of college credit equivalent to lower-division courses at Creighton University (no standard level tests are accepted). Depending upon grades, Diploma recipients may receive up to 30 hours of college course credit. A score of 4 may allow the student consideration for advanced placement in a given subject, but will not necessarily warrant the granting of college credit. This can be reviewed on a case-by-case basis.

### *Credit for Experience*

The undergraduate colleges may award academic credit for knowledge acquired in a non-traditional manner in areas where Creighton offers instruction. Creighton degree students who believe they qualify for such credit may petition the appropriate academic department through the Dean's office detailing the experience in question and submitting appropriate supporting evidence. In evaluating the experience, departments may find it desirable to utilize standardized tests, department-prepared tests, portfolios, interviews, etc. The petition and departmental recommendation will be reviewed by the appropriate college committee and a recommendation made to the Dean, who makes the final decision as to the award of credit.

Students who petition for credit for experience that has not been supervised by a department must purchase a special examination/evaluation ticket (\$15). Examination/evaluation fee tickets must be purchased from the University Cashier in advance and presented to the department concerned. In addition to the examination fees, there is a recording fee of \$10.00 per credit hour awarded, which must be paid to the University Cashier before the credit will be recorded. (A total of \$50 is charged for taking and recording each credit hour of challenge examinations).

## **ADMISSION OF TRANSFER STUDENTS**

Students who are in good standing at another accredited college and entitled to honorable dismissal may be admitted to Creighton University without examination if they present evidence of satisfactory scholarship. An accredited college or university means one that has been fully accredited by a Regional Accrediting Association. Transcripts from schools that are not regionally accredited will be judged on an individual basis.

The regular application form must be filed with the Director of Undergraduate Admissions. The applicant is responsible for having the appropriate office of *each* institution previously attended send an official academic transcript and testimony of honorable standing directly to the Director of Admissions, *even if* attendance was only during a summer session or for part of a term. These official transcripts are required even if the transcript of the institution most recently attended lists the record of the student at the other institutions, and regardless of whether or not credit was received or advanced standing credit is desired. A high school transcript must also be submitted.



Specific program requirements of each School and College must be fulfilled for graduation. Students must earn at least 48 hours in residence to qualify for a degree. Based on this requirement, to qualify for a Creighton degree, transfer students should plan to spend the last two years of college at Creighton. No more than 80 transfer credit hours will count toward a degree. More hours may be required depending upon the program of study and the way in which the transfer hours fulfill University requirements. The minimum number of hours in a student's major which must be taken at Creighton are: 15 in the College of Arts and Sciences; 15-21 in the College of Business Administration; 20 in the School of Nursing.

### *Conditions for Transfer of Credit*

The University will evaluate all hours submitted by the transfer applicant and reserves the right to accept or deny any of the credits offered for transfer. Credit hours earned with grades of "C-" or better at an accredited institution of higher education prior to admission to Creighton University may be transferred at the discretion of the respective College. Transcripts will be officially evaluated by the College after a transfer student has been formally accepted for admission. In some instances, the College may require that the transfer student complete successfully at least one semester at Creighton consisting of not less than 12 semester hours before the exact amount of credit to be transferred will be permanently determined.

Credit hours are transferred, but not grade points or grades. The grade point average of the transfer student will be determined only by work done at Creighton. Credit is normally not granted for correspondence or television courses.

### *TRANSIENT STUDY*

Creighton students may be permitted to enroll in courses in other accredited institutions near their homes during the summer months. Prior approval of the Dean must be obtained for each course (application forms are available in the Dean's Office). Courses not so approved by the Dean in advance may not be accepted in transfer. Normally students will not be able to transfer more than a total of 12 hours of approved transient study during the entire degree program at Creighton. Students should consult the undergraduate college in which they are enrolled for additional transient study restrictions.

### *ADMISSION OF VETERANS*

Courses in all schools and colleges of the University are approved for veterans' education and training. Veterans' Service is provided by the Registrar's Office. Veterans and others eligible for educational benefits administered by the Veterans Administration are given assistance to assure proper and advantageous use of their benefits and to simplify and expedite transactions with the government.

Students who have completed service in the Armed Forces of the United States may petition for credit for certain experiences of an educational nature. Creighton University will use the recommendations of the American Council on Education Commission on Educational Credit to evaluate such experiences. Petitions should be submitted to the Registrar, who will make recommendations to the appropriate Dean.

## *ADMISSION OF INTERNATIONAL STUDENTS*

Creighton University welcomes international students from all areas of the world.

### *Required Documents*

International applicants for undergraduate programs must present the following documents:

1. Undergraduate Application for International Students.
2. \$40 nonrefundable application fee.
3. Counselor evaluation.
4. Applicants for whom English is not a native language must request that the Educational Testing Service send Creighton (Code 6121) the most recent original TOEFL score. A minimum TOEFL score of 80 iBT (213 CBT/550 PBT) is required. Admissible students who do not meet the minimum TOEFL score may receive **conditional admission** and enroll in Creighton's Intensive English Language Institute until they attain the necessary English proficiency.
5. Official high school transcripts. The high school attended must send the transcripts directly to Creighton.
6. Certified translation of all high school transcripts.
7. Official university transcripts. The university attended must send the transcripts directly to Creighton.
8. Certified translation of all university transcripts.
9. Completed Certification of Available Finances and bank statement describing the account activity within three months of the date we receive the application.
10. ACT or SAT scores: Recommended for all applicants but required of freshman applicants who do not need to present a TOEFL score.
11. Certificates, diplomas, or examination results marking completion of secondary education or preparation for higher education (e.g., "O" level or IB exam results).

### *Enrollment Reservation Deposit*

Students accepted for admission are requested to confirm their acceptance and enrollment at Creighton with a \$250 enrollment reservation deposit by May 1 for the Fall Semester and November 1 for the Spring Semester. The deposit is refundable in full—minus \$100—prior to the beginning of any semester. The refund is sent after the Certificate of Eligibility (I-20) has been returned to Creighton.



### *Academic Scholarships*

International students may be eligible to receive academic scholarships, renewable for four years. Students interested in competing for those scholarships must submit their complete application for admission on or before **March 1, the priority deadline for fall admission and September 1, the priority deadline for spring admission.**

For more information about international student admission and services, contact the Office of International Programs (OIP) in Lower Becker G25, (402) 280-2221 or visit the website at <http://www.creighton.edu/IntlPrograms/students>.

### *ADMISSION OF SPECIAL STUDENTS*

Students who wish to take courses but do not expect to receive a degree from Creighton University may register as special students. Prerequisites for specific courses must be met and students are expected to fulfill the same course requirements as degree-seeking students. Most special students taking undergraduate courses register in University College. Tuition and fees charged will be on a per-credit-hour basis for students taking from 1-11 semester hours; special students attending on a full-time basis (12-18 semester hours) are charged full tuition and fees. Students who have been accepted into certificate programs and carry a minimum of six hours per semester are eligible to apply for federal financial aid. Persons who have registered as special students and subsequently decide to enter a degree program must apply for acceptance as degree-seeking students.

A student who has been dismissed from another educational institution within the previous calendar year will normally not be allowed to register at Creighton as either a special or a degree-seeking student.

### *INTRA-UNIVERSITY TRANSFER*

Students wishing to transfer from one undergraduate college to another within the University must file a special application, which is available in their current academic dean's office.

### *LEAVE OF ABSENCE PROGRAM (LOAP)*

Creighton's Leave of Absence Program is a planned interruption in a student's formal education. It is designed for full-time undergraduate students in good standing (cumulative GPA of 2.00 or above). In this program the student voluntarily steps out of college for a specified period of time for one or two semesters. A student who elects this program may do so to re-evaluate their educational goals, earn additional money for their educational expenses, travel, receive medical procedures that would debilitate them from completing a full academic semester, and/or gain other practical experiences not available on campus. The program is not intended for students who wish to temporarily attend another college or university.

The principal advantage of LOAP is that it offers a student the opportunity to leave college temporarily with the assurance that he/she will be able to return and resume his/her studies with a minimum of administrative difficulty. Because the leave is initially approved by the College and officially recognized as a leave of absence, the student is able to be away from the College and still maintain a close tie with it.

Students in this program are considered "on leave" by the University and will not be classified as enrolled students; however, they will be eligible for services of the Career Planning and Placement Center and limited use of library facilities.

## *READMISSION OF FORMER STUDENTS*

Students previously enrolled in the College of Arts and Sciences, College of Business Administration, or the School of Nursing who have been out of school for at least one full semester must make formal application for readmission to the school or college previously attended. Students must submit a new application form and send all official transcripts of any schools attended after leaving Creighton. The \$40 application fee is waived. A student involved in the Leave of Absence Program (LOAP) is exempt from this requirement unless the student failed to return as expected after the end of the specified period of leave, or unless the student enrolled elsewhere in the meantime.

Former full-time students who have continued on a part-time basis need not reapply if they wish to resume a full-time schedule.

## *ENROLLMENT RESERVATION DEPOSIT*

Each applicant for admission will be informed in writing by the Director of Admissions of the outcome of his or her application.

An applicant accepted for admission is asked to make a non-refundable \$350 enrollment deposit (\$250 class reservation and \$100 housing fee) by May 1 for the Fall Semester and December 15 for the Spring Semester. The enrollment reservation is credited to the first semester's tuition.

If the reservation is canceled or the student fails to register, or withdraws after registering, the deposit is forfeited to the University.

## *SUMMER PREVIEW PROGRAM*

The Summer Preview Program has been organized to give new students an opportunity during the summer to consult with administrators, faculty advisors, and student leaders about curricular regulations, course details, registration procedures, or any other questions the student might have. Several dates are specified during the summer, and students are invited to visit the campus at one of those times.

## *REGISTRATION*

Registration for continuing students is conducted in March-April for the Summer Sessions and the Fall Semester and in October-November for the Spring Semester. Registration is conducted through the web. Registration is conducted continuously until the end of the late registration period.

Students in Arts and Sciences, Business Administration, Nursing, Pharmacy and Health Professions, University College and Graduate School receive related registration materials, including a specific appointment time for completing Registration. Each student completing Registration is able to view their schedule at any time through the web.

By enrolling in Creighton University, a student agrees to comply with all rules, regulations, directives, and procedures of the University, and understands that his or her failure to do so will be grounds for dismissal or other disciplinary action at the University's discretion. The University reserves the right to dismiss at any time a student who in its judgment is undesirable and whose continuation in the University is detrimental to himself, herself, fellow students, or the interests of the University, and such dismissal may be made without specific charge.

## *WELCOME WEEK*

All new students are required to be on the campus a few days before classes begin to participate in “Welcome Week” activities in August. New students move into their housing, consult with their advisors, learn about the University and its many services and opportunities, and become acquainted with the school, the faculty members, and the other members of their class. Approximately 120 upper-class students serve as leaders during Welcome Week and work with small groups of new students offering individual attention and special help. For the exact dates of registration and other events for both freshmen and upper-class students see the University calendar, pages 4-8.

### *Late Registration*

All official admission records must be received and approved by the Committee on Admissions at least two weeks before registration.

### *Full-Time Students*

Students who take 12 or more semester hours of credit during a semester are considered full-time students.

### *Part-Time Students*

Students who carry less than 12 semester hours of credit are considered part-time students. Such students pay tuition according to the current semester-hour charge and all other fees to which they might be subject. Part-time students are required to follow the prescribed course of studies.

### *Auditing Courses*

Students will be permitted to register as auditors only for exceptional reasons and with the explicit authorization of the Dean. Not all courses are open to auditors. Auditors are not held responsible for the work expected of regular students, are not admitted to examinations, and receive no grade or credit for the course. Regular attendance at class is expected, however, and auditors are subject the same as regular students to being dropped from the course for excessive absences (in this event auditors receive a W). Changes of registration from credit to audit or audit to credit will not be permitted after the deadline, four weeks after the first day of classes.

A student who has previously enrolled as an auditor may not take the course for credit during any succeeding semester except by special permission of the Dean.

Charges for courses audited are one-half (50 percent) of the regular per-credit-hour tuition rate when the per-credit-hour rate is applicable, for example, when a student registers for less than 12 semester hours, including the credit for the course(s) audited. For Summer Session courses, the 50 percent reduction for auditors applies to the regular rate only, not to the Summer Session discounted rate. Also, special courses, workshops, and institutes offered at a special flat-rate tuition charge are excluded from the auditor discount.

Students seeking to change from credit to audit status will be eligible for a tuition adjustment (if otherwise applicable) only if the change is made with the dean’s approval within the period for late registration.

## *ADJUSTMENTS AND WITHDRAWALS AFTER REGISTRATION*

### *Changes in Registration*

Changes in registration are permitted until the end of the first week of classes.

### *Dropping Courses*

Withdrawal from any course after the first week requires sufficient cause and may be made only with the approval of the Dean. After the first week of class (the period for late registration) any petition to drop a course or to change status from credit to audit must include the recommendation of the teacher(s) involved and the student's college or major advisor before the petition will be acted on by the Dean. Course withdrawals with a "W" may not be made later than the date posted each semester, which is approximately a week after midsemester grades are available. A student who drops a course without approval of the Dean receives "WF" for the course (failure because of unauthorized withdrawal).

### *Withdrawal from the University*

A student is considered in attendance until he or she has formally notified the University in person or in writing of their withdrawal.

Permission to withdraw from the University is granted by the Dean of the School/College in which the student is registered. This is required as a condition of honorable dismissal.

A student will be considered as having withdrawn from the University after two consecutive weeks of unexplained absence. However, this policy is not to be considered as revoking the regulation that requires a student to notify the Dean in person or in writing of his/her withdrawal. Refunds are made to the student on the basis of the date he/she has formally notified the Dean in person or in writing of their withdrawal.

A student withdrawing from the University during any semester or summer session before the final examinations forfeits credit for work done in that term. Students who withdraw with permission of the Dean receive "W" on their official record; those who withdraw without permission of the Dean receive "WF" for all courses (failure because of unauthorized withdrawal).

Students who have decided to withdraw from school and plan to return within the following year may wish to consider the Leave of Absence Program (LOAP). For further information about LOAP see page 43.

## TUITION AND FEES

Ordinarily tuition and fees and board and room charges are payable in advance for an entire semester or summer session.<sup>1</sup> (see Financial Arrangements). All rates are subject to change without notice.

<i>Application for admission fee</i> .....	\$40.00
<i>Enrollment reservation deposit</i> (credited to tuition) .....	250.00
<i>Tuition per semester</i> for full-time program (rates effective August 2006):	
a. In Arts & Sciences or Business Administration (12 to 18 credit hours) .....	12,083.00
b. In Nursing except Accelerated Curriculum (12-18 credit hours)....	12,083.00
c. In Accelerated Nursing Curriculum (effective August 2006) .....	11,436.00
d. In Nursing LEAP Program.....	11,436.00
<i>University College</i>	
Part-time (1-11 credit hours) <sup>2</sup> per credit hour .....	595.00
<i>Tuition per credit hour</i> for courses numbered below 600 when program totals less than 12 credit hours or for each credit hour in excess of 18 <sup>3</sup> :	
a. For courses in Arts & Sciences, Business Administration .....	756.00
b. For courses in Nursing (except in Accelerated Curriculum) .....	756.00
<i>Tuition per course</i> —Independent Study Program (Correspondence, 3 credit course) .....	
	750.00
<i>University Fee</i> for all full-time students per semester .....	380.00
<i>University Technology Fee</i> for all full-time students per semester.....	100.00
<i>University Fee</i> for all part-time students per semester .....	38.00
<i>University Technology Fee</i> for all part-time students per semester .....	40.00
<i>Orientation Fee</i> .....	50.00
This one-time fee is charged to all new, full-time, undergraduate students.	
<i>Student Health Insurance Premium</i> for six months <sup>4</sup> .....	866.00
<i>Yearbook</i> .....	30.00

Charged to all full-time, undergraduate students. If you choose not to receive a yearbook, you may request the Business Office to delete the yearbook fee from your statement if this request is made prior to the date for the penalty for late payment.

All students are subject to the University Fee, laboratory, technology, non-recurring, penalty, and special service fees each semester. Full-time students (in a semester) are subject to extra tuition when registering for credit hours beyond the normal full-time limitation.

1 Registration is not complete until financial arrangements have been made.

2 University College students may be eligible for a remission of one-third of the regular assessed rate. Remission is limited to six credit hours. For further details contact University College.

3 Students deemed to be "in good standing" in the Honors Program may have tuition for credit hours in excess of 18 waived at the recommendation of the Honors Director.

4 This charge for each full-time student may be waived if the student presents evidence that he or she carries insurance that provides coverage at least comparable to the student insurance offered by the University.

Part-time students (students registering for less than 12 credit hours in any semester) and all summer session students are charged tuition on a per-credit-hour basis and are subject to registration, laboratory, and any other applicable fee among the following:

Any student, full- or part-time, may be subject to the following nonrecurring, penalty or special service fees in any semester or summer session when applicable:

<i>Late payment fee</i> <sup>1</sup> (also see Financial Arrangements—page 49).....	118.00
<i>Special examination/evaluation fee</i> each examination or other learning assessment.....	15.00
<i>Challenge examination fee</i> in clinical practicums in nursing per credit hour .....	40.00
<i>Applied Music fee</i> for registration per credit hour each semester.....	150.00
<i>Recording fee</i> for each credit hour awarded on basis of examination or other special learning assessment.....	11.00
<i>Board rate and room rate</i> per semester .....	(see page 22-23)

The tuition charges for courses audited are one-half (50 percent) of the regular per-credit-hour rate when the per-credit-hour rate is applicable.

Loss or damage to University property and equipment and excessive use of laboratory materials are charged to the student or students responsible.

Property and equipment, including library books, military uniforms, laboratory apparatus, etc., loaned to a student for use during a period of instruction must be returned by the time specified. In case of delinquency, grade reports, transcripts, and diplomas shall not be released until proper return or restitution is made.

### *Special Tuition Rates for Teachers and School Administrators*

Teachers and school administrators who are employed full time in public or private elementary or secondary schools and enroll as part-time students at Creighton may receive a tuition discount of 50 percent for three semester hours of course work each semester (fall and/or spring) in one of the following divisions: College of Arts and Sciences, College of Business Administration, School of Nursing, University College, or Graduate School. This discount does not apply to students in University College who receive a University College tuition remission. Students must complete an “Application for Teacher Improvement Remission” form verifying full-time employment status. These forms are available in the Business Office. Telephone: 280-2707.

The University also reserves the right to exclude certain programs from this special discount. The following programs are currently excluded: Master of Business Administration and Information Technology Management. In the future, other programs may be added or deleted without notice.

### ***ESTIMATING BASIC COSTS***

The basic costs for a Freshman year (two semesters) in the College of Arts and Sciences or College of Business Administration are:

Tuition (full-time program at rate effective August 2006).....	\$24,166.00
University Fee.....	760.00
University Technology Fee .....	200.00
Board and double room.....	<u>7,842.00</u>
Total for academic year (two semesters) .....	32,968.00

The basic costs payable each semester would be approximately one-half of these totals.

1 Transcripts, diplomas, and grade reports are released only when all outstanding balances have been paid.



In estimating the overall costs one should include allowances for personal expenses, including such items as clothes, laundry and dry cleaning, recreation and entertainment, transportation, etc. These costs will vary greatly among students. Books and school supplies average about \$900 per year.

### *FINANCIAL ARRANGEMENTS*

Tuition and fees and board and room charges are payable at the time of registration for a semester. However, arrangements may be made to pay monthly installments by using the University's Monthly Electronic Transfer (MET) plan. Participation in this plan will be limited to the unpaid balance after all financial aid credits have been applied. Folders describing the payment plans and services of MET are mailed to prospective and returning students during the summer.

Books and supplies may be purchased at the Campus Bookstore. These items must be paid for when they are obtained.

Students are invited to pay tuition and other expenses by personal check or money order. This is recommended especially to avoid the risk involved in carrying large amounts of cash. All students, particularly those from out of town, are urged to establish checking accounts in Omaha or hometown banks. The University will ordinarily cash small checks for students. The University will cash checks for students with a \$200 limit per day in the Business Office. Checks returned for insufficient funds will be assessed a \$25 fee. However, the University reserves the right to revoke or to deny this privilege to any individual at any time.

#### *Late Payment Policy*

A late payment fee will be added to charges assessed at registration that remain unpaid after the period for late registration. This fee is \$118 for the first month and an additional \$60 for each subsequent month that the account remains unpaid. Accounts with unpaid balances under \$500 will be subject to a \$118 fee the first month and \$46 each month thereafter.

Students with questions regarding their financial responsibilities are invited to contact the Business Office to set up an appointment for individual counseling.



## WITHDRAWALS AND REFUNDS

Students withdrawing before the end of a semester will be charged tuition and recurring fees on the following basis:

<i>Period of attendance from date of enrollment</i>	<i>Percent of the semester rate to be charged</i>
During the first week.....	10%
During the second week.....	20%
During the third week.....	40%
During the fourth week.....	60%
During the fifth week.....	80%
Over five weeks.....	100%

Students withdrawing before the end of a summer session will be charged tuition and recurring fees on the following basis:

<i>Period of attendance from date of enrollment</i>	<i>Percent of the semester rate to be charged</i>
One or two class days.....	10%
Three through seven class days.....	40%
Eight through 12 class days.....	80%
Over 12 class days.....	100%

Students withdrawing before the end of the Pre-Session will be charged tuition and recurring fees on the following basis:

<i>Period of attendance from date of enrollment</i>	<i>Percent of the semester rate to be charged</i>
One or two class days.....	10%
Three through five class days.....	40%
Six or seven class days.....	80%
Eight or more class days.....	100%

Refunds of room rent for withdrawals will be on the same basis as refunds of tuition.

Nonrecurring fees, the application fee, the University fee, and penalty fees will be charged in full, regardless of the period of attendance.<sup>2</sup>

Full time students who drop courses after the last day for late registration but remain full-time (12 or more credit hours) receive no refund. If a full-time student drops to part-time status, refund of the difference between the full-time tuition charge and the per-credit-hour charge for the courses being continued will be made in accordance with the schedule applicable in the event of total withdrawal. Students assessed tuition per credit hour, including part-time students, graduate students and students in a summer session, will be charged for courses dropped in accordance with the schedule applicable in the event of total withdrawal.

A student will be considered as having withdrawn from the University after two consecutive weeks of unexplained absence. However, this policy is not to be considered as revoking the regulation that requires a student to notify the Dean in person or in writing of his/her withdrawal. Refunds are made to the student on the basis of the date he/she has formally notified the Dean in person or in writing of their withdrawal.

1 Class day is any day of the term when any class is in session, regardless of whether or not a specific course is scheduled to be held on that day.

2 The nonrecurring, penalty, and special service fees include deferred payment, University fee, late payment, special examination/evaluation, challenge examination, recording, tuition grant administrative fee, and locker.

# STUDENT FINANCIAL AID

## *ELIGIBILITY CRITERIA*

To be eligible for Federal and University financial aid programs at Creighton University, you must be (1) a citizen, a national or permanent resident of the United States, (2) in good academic standing, (3) in financial need as determined by the U.S. Department of Education, and (4) a high-school graduate or equivalent pursuing a degree on at least a half-time basis (six hours). Students from a foreign country may qualify for consideration of a limited number of Creighton funded scholarships.

NOTE: With the exception of the Pell Grant, Stafford Student Loan, and Parent Loan to Undergraduate Students (PLUS), eligibility for Federal and University aid will not normally extend beyond the prescribed course length, normally four to five years (eight to ten semesters) depending on the curriculum. First award priority will be to students enrolled on a full-time basis (at least 12 hours per term).

Students who have a previous baccalaureate degree and are pursuing a second baccalaureate degree are only eligible to apply for loan or employment assistance. Normally, University and Federal grants and scholarships are not extended to students seeking a second baccalaureate degree.

## *APPLICATION PROCEDURES*

### *Freshmen, Transfer and Returning Students:*

1. Complete the "Application for Undergraduate Admission." Forward all parts of the application to the Admissions Office. Creighton cannot make a financial aid commitment until you have been granted acceptance by the University.
2. Complete a Free Application for Federal Student Aid (FAFSA) found at [www.FAFSA.ED.gov](http://www.FAFSA.ED.gov). This is the fastest way to apply for need-based aid. Once you complete the form, submit it directly to the processing address listed on the application. Do not submit until after January 1. All processed FAFSA's should be on file at Creighton by April 1 for priority consideration. Applications received after April 1 will be considered as funding allows. Creighton's FAFSA code number is 002542.
3. Submit the Creighton Financial Aid Application with a signed and dated copy of the parents' and applicant's 2006 Federal tax return to the Student Financial Aid Office by May 1, 2007. If a tax return will not be filed, a statement of nonfiling must be submitted to the Student Financial Aid Office.

## *AWARD NOTIFICATION PROCEDURES*

You need to access your Student Self Service account at least weekly to see; what forms are needed and/or have been received, if there are special documents needed, to see if your aid application file is complete, and accept your aid award.

Many Creighton forms are available for download from our Office's general website found at [www.creighton.edu/finaid](http://www.creighton.edu/finaid) under "How Do I Apply/Commonly Used Forms."

New undergraduate students will receive a preliminary award notification prior to our Office receiving tax returns and the CU Aid Application/Verification Form. This is a hardcopy award letter and will be sent to the student's permanent home address. It will also be viewable on your Self Service account. Instructions on how to accept your award will be provided with your paper award letter.

Once the requested documents have been received, your FAFSA data will again be reviewed for accuracy. If a modification to your original award is needed, you will be notified by an e-mail sent to your Creighton e-mail address. Revisions will only be seen on your Self Service account. Be sure to check both your Creighton e-mail and Self Service frequently for updates.

Returning undergraduate students are notified of their award by an e-mail to your Creighton e-mail address. Awards are ready only once all requested documents have been received and reviewed. Awards will only be displayed on your Self Service account, no paper award notification is sent. Be sure to check your Self Service account often to see the status of your aid application.

## ***DISBURSEMENT AND USE OF AWARDS***

All financial aid advanced by Creighton University must be used to pay tuition, fees, and University room and board charges before any other direct or indirect educational costs. With the exception of Federal Work-Study, all financial aid awards will be deducted from University tuition, fees, room and board charges in the fall and spring semesters. One-half of the aid award will be deducted in the fall, and the remaining half in the spring. Changes in enrollment status from fulltime (12 hours or more) to less than fulltime may impact the type and amount of aid disbursed in a semester. Federal Work-Study will not be deducted since the student must earn his/her award. Students on Federal Work-Study will receive bimonthly paychecks and may use them to meet their personal or institutional expenses.

## ***SCHOLARSHIPS***

Normally, to receive and retain a scholarship, you must be enrolled in a program of study leading to a degree in the College of Arts and Sciences, College of Business Administration, or School of Nursing. In addition to qualifying material listed for each scholarship, you must be accepted and enrolled full-time at Creighton to retain scholarship(s) for four academic years or eight consecutive fall/spring semesters (exclusive of summer terms). Furthermore, the dollar amount of the scholarship may vary unless otherwise specified, and all offers are made dependent on the annual availability of funds. As new scholarships, not listed in the catalog, become available, selections are made in conjunction with the wishes of the donor. Most scholarships are renewable for additional years and continued eligibility is based on maintaining the specified cumulative grade point average for each scholarship and showing normal progression toward a degree. Unless otherwise specified, all University controlled scholarships, individually or in combination, may not exceed the value of tuition, and may only be applied toward tuition charges.

If you have submitted all required credentials necessary for admission by January 15 of your senior year, you will automatically be given *priority* consideration for all competitive academic and service/leadership scholarships. Individuals who complete their admission requirements after January 15 are eligible for academic and service/leadership scholarships based on the availability of funds. Most merit scholarships are awarded at the time of admission to the University and honored for eight semesters for incoming freshman. Most scholarships do not require a separate application, your admission credentials serve this purpose. The Admission Office will contact you if additional forms or information is needed.

The four year/eight semester limitation begins upon your matriculation at Creighton and is accumulated consecutively. If you leave Creighton any time during this period, you automatically forfeit all future scholarship eligibility previously granted, unless you receive an approved Leave Of Absence (LOA) from your school. It is your responsibility to notify the Financial Aid Office of this action prior to your temporary separation from the University. **Semesters absent under an LOA do not count against the eight semester limitation.**

Scholarships awarded to entering undergraduates can be continued if you are admitted to one of Creighton's post-baccalaureate programs before the end of the eight semester limit. If you enter a program of study leading to a D.D.S., D.P.T., O.T.D., J.D., M.D., M.A., M.B.A., M.S., M.Ed., M.S.A.P.M., Pharm.D., or Ph.D. degree, your scholarship is continued until eight consecutive semesters have expired. Scholarship values based on a percentage of tuition will be calculated on the prevailing undergraduate tuition rate in effect during the time you are in a post-baccalaureate program of study.

**DOCUMENTED FINANCIAL NEED IS NOT A CONSIDERATION FOR THE FOLLOWING (NO-NEED) SCHOLARSHIPS. NEVERTHELESS, APPLICANTS ARE ENCOURAGED TO FILE A FAFSA. IF NOT SUCCESSFUL IN RECEIVING ONE OF THE SCHOLARSHIPS BELOW, YOU WILL BE CONSIDERED FOR OTHER TYPES OF FINANCIAL AID. YOU MUST HAVE FAFSA RESULTS ON FILE AT CREIGHTON BY APRIL 1.**

### *Presidential Scholarships*

These scholarships are competitive annual three-quarter tuition awards based on ACT or SAT scores, high school class rank and leadership ability. The scholarships are renewable with a 3.3 grade point average. They are funded from gifts from Union Pacific, The Omaha World-Herald, Dr. Victor J. and Mary C. Albertazzi and Creighton University.

### *Creighton Academic Scholarships*

These competitive academic scholarships, based on high school academic performance and national test scores, are awarded to selected entering freshmen and are renewable by maintaining the GPA as indicated on the scholarship announcement letter. These scholarships may be named University Awards, Founders Awards or Magis Awards. These awards may be partially or totally replaced by one of the named scholarships that follow.

### *Ignation Scholarships for Service and Leadership*

These scholarships are awarded based on the applicants record of leadership and service provided by the student in the application for admission. The Office of Admission reviews all applications and selects a limited number of recipients for this award. These awards are renewable for students maintaining normal progress toward a degree.

### *Jesuit Scholarships*

These scholarships recognize students who graduated from Jesuit High Schools with at least a 3.00 GPA and are renewable based upon conditions in notification letter from Undergraduate Admissions.

### *Scholarship for Economic and Educationally Disadvantaged Students*

Scholarships are available to students admitted to the University and participate in the Student Support Services Program. The number and amount of awards are determined by the student's financial need and program funding.

### *Alumni Association Scholarships*

These competitive renewable annual awards are offered to children of Creighton alumni and are based on academic achievement. A 2.8 GPA is required for renewal.

### *The Arthur Andersen and Company Endowed Scholarship*

This endowed scholarship funded by the Arthur Andersen and Company endowment is given to a senior accounting major who has evidenced a professional level of technical ability, self-confidence, strong interpersonal and communications skills, leadership abilities, and a sincere interest in the public accounting field.

### *Lt. Col. Michael P. Anderson Memorial Scholarship*

This endowed scholarship remembers the life of a Creighton alumnus who died in the shuttle Columbia. It is awarded to a junior or senior student majoring in physics by the Physics Department faculty. It may be renewed for another year by maintaining a 2.5 cumulative grade average.

### *Mary Ann Beller Scholarship Fund*

In memory of his first wife, Donald V. Beller has established this fund to assist nursing students from the states of Iowa and Nebraska. The Dean of the School of Nursing annually selects the recipient(s) and the amount of the annual award.

### *Dr. Lee C. Bevilacqua Scholarship*

This award recognizes a man who made innumerable contributions to Creighton's athletic teams over many years. It provides support to student-athletes and is renewable based upon their academic progress and availability of funds. The award amount and number of recipients is determined by the Athletic Department.

### *The Rowley "Pat" Irwin Blakeney Scholarships*

The Blakeney Scholarship is to assist academically-qualified degree students in the College of Business Administration. Awards are renewable. Freshmen with a declared interest in business who graduated in the top two-fifths of their high school class and upperclassmen with a declared major in business and a cumulative GPA of 2.5 or more are eligible. All criteria being equal, need may be considered.

### *William Jennings Bryan Debate and Speech Scholarship*

Creighton University offers scholarships to students who excel in speech activities. The awards are based upon academic and debate achievements. Finalists will need to audition for this award. Continuation of the scholarship requires maintaining a 2.5 GPA and participation in the Creighton University Forensics and Debate team. Contact the Office of Undergraduate Admissions for further details.

### *Michael A. Byrne Scholarship*

This award goes to a senior Journalism or Marketing major based on academic achievement and extracurricular involvement who has not received scholarship support in the past. It is funded through a gift by the Creighton Federal Credit Union and Mrs. Anna Byrne.

### *Congressman Walter H. Capps Justice and Peace Scholarship*

Each year a junior or senior Arts and Sciences student will be selected by a faculty committee who demonstrates an outstanding commitment to the peace and justice studies program and adheres to its values and objectives. It is possibly renewable.

### *Sheila Ciciulla Nursing Scholarship*

Honoring a longtime faculty member and administrator in Creighton's School of Nursing, this award recognizes an outstanding nursing student who epitomizes integrity and commitment to the nursing profession. It requires a 3.0 GPA for renewal and the recipient is determined by the School's Scholarship Committee.

### *The College of Business Administration Scholarship*

This scholarship is awarded to College of Business Administration students on the basis of scholastic achievement.

### *College of Business Administration Ethics and Social Responsibility Scholarship*

Creighton's College of Business Administration recognizes students for exceptional service accomplishments and leadership potential. This scholarship is renewal with a 3.0 GPA.

### *Everett and Eileen Connelly Scholarship*

This scholarship provides for full tuition and fees, plus a book allowance for an entering student with exceptional academic and personal qualities into any of Creighton's undergraduate schools. It is renewable for ensuing years by maintaining an overall GPA of at least 3.3. Financial need may be used as a determining factor between qualified candidates.

### *The James D. Conway Scholarships*

Academically-qualified students who graduated from Hastings High School or St. Cecilia High School, both of Hastings, Nebraska, are eligible for these scholarships. Awards are renewable with a 2.5 GPA. A preference is extended to qualified students who will pursue a prelaw education.

### *Frederick J. de la Vega Scholarship*

Students in the three undergraduate colleges are eligible for these highly competitive awards. Academic achievement is the main criteria upon which selections are based but the financial need of applicants may be considered. Between equally eligible applicants, a preference is given to students of color. This award is renewable by maintaining a cumulative 3.0 GPA.

### *The Deloitte and Touche Scholarship*

Awarded to a senior accounting major who has evidenced an interest in public accounting, maintained a high academic record and demonstrated leadership ability.

### *Robert M. Dippel Scholarship*

This recognition goes to a student-athlete participating in intercollegiate athletics and the selection is made by the Director of Athletics.

### *Mary Dora Scholarship*

This scholarship is awarded to students of color, with preference to African-American students, in the School of Arts and Sciences. Students must demonstrate their resolve to overcome economic and educational disadvantage in search of higher education to qualify for this scholarship and it is renewable with a 2.0 GPA.

### *Paul W. Douglas Scholarship*

This scholarship is established to assist students enrolled in the College of Arts and Sciences with a declared major in either Environmental or Atmospheric Sciences. Faculty members from the two departments shall select the recipient and renewal is based on academic progress and continued status as a student in these departments

### *H. M. and Ruby V. Frost Scholarship*

In awarding this scholarship, the University Academic Scholarship Committee considers high-school academics, national test scores, and extracurricular activities. Need may also be considered. The scholarship is renewable by maintaining a 3.0 GPA.

### *German-American Society Scholarship*

An annual scholarship will be awarded to a student who has a record of high academic performance and a firm commitment to the study of German with at least 12 credit hours on the upper-division level; demonstrable financial need will also be a decisive factor in awarding the scholarship.

### *Robert "Bob" Gibson Scholarship*

This scholarship was established in honor of Bob Gibson, who starred on the Creighton University basketball team from 1954-57 and was the first inductee of the Creighton University Athletics Hall of Fame in 1968. Bob was also elected to the Baseball Hall of Fame in 1981 after a major league baseball career with the St. Louis Cardinals. This \$1,000 scholarship is awarded annually to an underclass minority student-athlete with financial need. It requires a 2.0 GPA for renewal.

### *Jean H. Jerman Gondringer Scholarship*

This scholarship was established to assist students enrolled in the School of Nursing with high academic standing. Preference is given to students from rural Nebraska. The School of Nursing Scholarship Committee selects the recipient each year. It may be renewed with a 2.0 GPA.

### *Charles and Naomi Grisham Scholarship*

This annual award is designed to assist students enrolled in the College of Arts and Sciences who demonstrate academic proficiency. First preference is given to a student with an interest in majoring in Environmental and Atmospheric Sciences. This scholarship is renewable with a 2.0 GPA and availability of funds.

### *Ron Hansen Scholarship in Creative Writing*

This scholarship is named in honor of Creighton alum Ron Hansen. Mr. Hansen is a best-selling author of novels, short fiction, screenplays, and essays. His many highly praised works of fiction include *Mariette in Ecstasy*, *The Assassination of Jesse James by Coward Robert Ford*, *Desperadoes*, *Nebraska*, *Hitler's Niece*, *Isn't It Romantic*, and *Atticus*, a National Book Award finalist. Applicants should contact the Undergraduate Office of Admission for specific instructions and scholarship application material. It is renewable with a 3.00 GPA.

### *Harve B. Heaston Memorial Scholarship*

An scholarship awarded to a senior finance major in the College of Business Administration who demonstrates high academic promise and extracurricular leadership in the college and university.

### *James and Helen Highes Herbert Scholarship*

This scholarship is established to assist entering or continuing students in the College of Business Administration with a preference to those pursuing an accounting career. In addition to GPA, selections will also be based on extracurricular activities and employment history. This award may be renewed by attaining a minimum 2.5 GPA.

### *Rev. James E. Hoff, S.J. Magis Scholarship*

This endowed scholarship honors Rev. James E. Hoff, S.J. and his pursuit of the *Magis*. It provides scholarships for students enrolled in any undergraduate school or college of the University, who through their daily actions and involvement with their peers and with others live out the Ignatian principle of the *Magis*. This scholarship may be renewed, based upon the student's academic progress and availability of funds.

### *Frank J. Iwersen, MD Student Athlete Scholarship*

This endowed award is given to a student-athlete who is in good academic standing with preference to students with financial need. The Athletic Director and Financial Aid Director shall select the recipient and it may be renewable.

### *Lied Foundation Trust/Christina Hixson Scholarship*

This endowed scholarship, made possible by the Lied Foundation and its sole trustee, Christina Hixson, recognizes students entering the College of Business Administration. Preference is given to students from Midwest/Plains states who demonstrate financial need and the potential for success in the business world. Applicants should contact the Undergraduate Admission Office for specific instructions and scholarship application material. It is renewable by maintaining enrollment in the College and a minimum 2.5 cumulative GPA.

### *Adele M. Johnson Scholarship*

This endowed scholarship is available to juniors and seniors in the College of Arts and Sciences majoring in Education. The Chair of the Education Department and the Dean of the College of Arts and Sciences annually selects the recipient. The award is renewable with a 2.50 GPA.

### *Charles and Genevieve Juergens Scholarship*

Each year freshmen entering any undergraduate division of the University may receive this scholarship. The awards will be based upon academic achievement, extracurricular leadership, and, if necessary, need. The scholarships are renewable upon the condition that the student is maintaining a 3.0 GPA.

### *Thomas P. Keating Phi Delta Theta Scholarship*

This annual scholarship is available to a member in good standing of Phi Delta Theta who represents the three cardinal principles and demonstrates chapter and campus involvement. This scholarship is not renewable.



### *Grace Keenan Scholarship*

This fund provides financial support to Fine Art majors in the College of Arts and Sciences. These renewable scholarships are awarded to deserving students based on academic achievement and recipients are selected by the Chair of the Fine and Performing Arts Department. As determined by the Chair, students from other disciplines can be nominated based on the availability of funds. A cumulative 2.5 GPA is required for renewal.

### *Edeth K. Kitchens Scholarship*

This endowed scholarship honors a former Dean of the College of Nursing. It is awarded to a nursing student who is a Registered Nurse applying to Creighton University to earn a Bachelor's Degree in Nursing. To be considered, students must have earned a 3.0 GPA from previous place of learning. The School of Nursing selects the recipient.

### *T. Leslie Kizer Scholarships*

Freshmen entering the College of Business Administration are selected each year to receive this scholarship. Recipients are selected on the basis of high school academics, national test scores, and extracurricular activities. A 3.0 GPA is required for renewal.

### *KPMG-LLP Foundation Endowed Accounting Scholarship*

This recognition is given to a senior College of Business major who demonstrates exceptional interest and ability in the accounting field. The Department of Accounting makes the annual selection.

### *John W. and Ann C. Langley Scholarship*

Each year a scholarship will be awarded to entering freshmen on the basis of high-school academics, national test scores, extracurricular involvement, and possibly, financial need. Recipients will be required to maintain a 3.0 GPA for renewal.

### *Lorge Arts Scholarship*

A senior in the College of Arts and Sciences is the recipient for this scholarship, which is based upon academic performance and extra-curricular involvement. The Dean of Arts and Sciences selects the recipient each year. This scholarship is not renewable.

### *Clare Boothe Luce Scholarship*

Junior and senior women science majors may be invited by the Dean of the College of Arts and Sciences to apply for this renewable competitive award which may augment current academic scholarships. Special application forms are available from the Dean's Office upon nomination by a screening committee. This award may provide for tuition, University fees, on-campus room/board charges and an allowance in books.

### *Paul Luex Scholarship*

Awarded by the University Scholarship Committee, this scholarship shows first preference to students who are members of St. Libory Parish, St. Libory, Neb., then secondly to students from Central Catholic High School, Grand Island, Neb. Students must also demonstrate a record of community service.

### *Paul E. McCarville Scholarship*

An award is made to an incoming freshman who is a graduate of either St. Edmond's or Fort Dodge High Schools in Fort Dodge, Iowa. The scholarship is renewable provided the recipient maintains a GPA of at least 2.5. Selection is based on high school academics, extracurricular involvement, test scores, and leadership qualities. Financial need may be considered.

### *John J. "Red" McManus Scholarship*

This scholarship honors the godfather of Creighton Bluejay Basketball's modern era. John J. "Red" McManus coached the Jays from 1959-69 and finished his career with 138 victories. This scholarship is awarded annually by the Athletic Department to an undergraduate student-athlete whose talent, intensity, and passion on and off the court, continue to promote the program's prominence. It is renewable with a 2.00 GPA.

*Midwest Insulation Contractors Association/William R. Heaston Memorial Scholarship*

This award is given to an accounting major in the College of Business Administration, and is renewable as determined by the Accounting Department.

*Gordon and Gertrude Morrison Scholarship*

This scholarship fund honors the memory of the parents of Fr. Morrison, S.J., Creighton University's former President. The candidates shall be considered by the University Scholarship Committee who exhibit outstanding scholastic achievement and continued potential for academic success. The award is renewable by maintaining a minimum 3.0 GPA.

*John A. Murphy Scholarship*

Students who have graduated from a parochial high school are eligible for consideration. The scholarship is made available to one junior and one senior student in any undergraduate division with selection based upon academic achievement, extracurricular involvement, and leadership qualities. The award is renewable with a 3.0 GPA.

*Joseph F. Murphy, Jr. and Helen Clare Murphy Family Scholarship*

This award is available to entering freshmen and is renewable for successive years by maintaining a GPA of at least 2.7. Selection is based on high school academic achievement, leadership, extracurricular involvement, and national test scores. Financial need may be considered. Preference is given to Nebraska and Iowa residents.

*Nebraska Society of CPA'S*

This award is made by the College of Business's Department of Accounting to an accounting major showing excellence in the field.

*Laurence R. O'Donnell Scholarship*

Each year one freshman entering any undergraduate division of the University will be awarded this scholarship. The award is based upon academic achievement, extracurricular activity, and, if necessary, need. The scholarships are renewable upon the condition that the student maintains a 3.0 GPA and is progressing according to the guidelines of the program in which the student is enrolled.

*Omaha Federation of Advertising Scholarship*

This organization supports scholarships for senior level students who have a major which includes the study of advertising. Recipients are selected by the chairman of the Journalism and Mass Communication Department.

*Raymond Owens Scholarship*

This scholarship, established by Mrs. Emmett Roberts in memory of her brother, Raymond, is awarded to a deserving freshman from Creighton Prep High School for leadership, community service and commitment to Creighton Prep. It is not based on financial need and is not renewable.

*Val J. Peter Scholarship*

This scholarship was established in memory of the Founder of Interstate Printing Company by the Company and the Peter family. It is given to a junior Journalism student and may be renewed for the senior year. The Chair of the Department makes the selection annually.

*Physics Major Scholarship*

Jeffrey G. Gross established this scholarship to honor a senior physics major who scores the highest on the multiple choice portion of the comprehensive graduate student exam each fall. Contact the Physics Department for further information.

*Dean Michael Proterra, S.J. Scholarship*

This scholarship was established to honor this former Dean of the College of Arts and Sciences. It will recognize an outstanding student in the College and is renewable with a minimum cumulative GPA of 2.75.

### *Patrick C. Quinlan Memorial Scholarship*

Warren J. and Edith Quinlan Krebs founded this scholarship in honor of Edith's brother. It is awarded to students on the baseball team, with first preference to any one from Eastern Nebraska, then from the state of Nebraska. The Athletic Department selects the recipient of this annual scholarship.

### *Thomas C. Quinlan Scholarship*

This award will recognize a worthy student enrolled in the School of Nursing by the School's Scholarship Committee. Renewal is based on continued academic progress and enrollment in the School.

### *Lyle O. and Evelyn Remde Scholarship*

This endowed scholarship is awarded to a student-athlete. The recipient is selected by the Athletic Director. It may be renewed by continued participation in the athletic program and by maintaining at least a 2.0 cumulative GPA.

### *Rowley Family Scholarship*

Undergraduate students from New Mexico or Texas with a 'B' average or above are the designated recipients of this scholarship. A 2.25 GPA is required for renewal of this endowed scholarship.

### *Schroedinger's Cat Scholarship*

Junior women in the College of Arts and Sciences majoring in either physics or mathematics can be considered for this award. Academic achievement while at Creighton is also a criteria and the scholarship can be renewed for the senior year. The Chair of the Department of Physics makes the annual selection.

### *Scott Scholars Endowed Scholarship*

Scholarship recipient(s) of this award must enroll in the College of Business Administration and represent the pinnacle of academic excellence, as based on high school grades and national college entrance exams. This award is automatically renewed by maintaining at least a 3.4 cumulative GPA and continued enrollment in the College of Business. The value of the award is equal to each year's tuition, minus any other Creighton controlled and/or third party scholarships also received by the recipient.

### *Dr. John F. Sheehan Scholarship*

This scholarship is established to assist sophomore or junior level students enrolled in the College of Arts and Sciences with a declared major in Biology. The Biology Department will select the recipient(s) and renewal is based on continued academic progress and enrollment in the Department.

### *V.J. and Angela M. Skutt - Mutual of Omaha Scholarship*

Each year the University will award scholarships to sons and daughters of full-time associates of the Mutual of Omaha Companies. The scholarships will have a value of at least \$2,000 and are renewable upon application. Interested parties must first complete a pre-application form obtainable from the Training and Development Department, Mutual of Omaha Companies, Mutual of Omaha Plaza, Omaha, Neb., 68175.

### *Creighton Memorial St. Joseph Hospital Nursing Alumni Scholarship*

Awards sponsored by this alumni group are made to support undergraduate and/or graduate students in the School of Nursing. Awards may be renewed for ensuing years by maintaining a 2.5 grade point average and the endorsement of the Nursing School. Preference will be made to alumni of this organization, or their dependents.

### *Gilbert C. Swanson Foundation Scholarship*

The Swanson Foundation provides funds for deserving students and each year the University President shall determine the number of recipients and award amounts under foundation criteria. Awards are renewed at the discretion of the President and continued funding.

### *H. Margaret Thorough Scholarship*

Students in the School of Nursing benefit from this scholarship and is renewable with a 3.0 GPA. The School of Nursing selects the recipient(s) based on academic achievement and available funding.

### *Rose and Sal Valentino Scholarship*

Scholarship awarded annually to a senior economics or finance major in the College of Business Administration.

### *Anna Tyler Waite Scholarship*

Upper class students in the College of Business Administration are considered for this endowed scholarship. The Director of the Anna Tyler Waite Center for Leadership selects the recipients for this renewable award based upon participation the Center.

### *Floyd E. and Berneice C. Walsh Scholarship*

Students enrolled in the College of Business Administration are eligible for this scholarship established by former Dean Floyd Walsh and Mrs. Walsh to assist deserving students. At least a 2.5 GPA must be maintained for renewal.

### *Dr. Joseph B. Wiederholt Scholarship*

This fund consists of gifts given by the family and friends of Dr. Wiederholt in honor and memory of his life. It provides scholarships to upper class students in the College of Arts and Sciences who serve as models, reflecting the values and morals, of the Creighton University Credo. Preference is given to students who participate in extracurricular community service activities. The Division of Student Services selects the recipient for this award. It can be renewed with a 2.00 GPA.

### *Charles Zuegner Memorial Scholarship*

Various alumni and corporate gifts enable the memory of Charles Zuegner to continue through this scholarship. Recipients are selected by the chairman of the Journalism and Mass Communications Department.



**THE FOLLOWING SCHOLARSHIPS ARE AVAILABLE TO STUDENTS WITH FINANCIAL NEED AND DEMONSTRATED ACADEMIC ACHIEVEMENT. A COMPLETED FAFSA MUST BE ON FILE BY APRIL 1 FOR PRIORITY CONSIDERATION.**

*Ahmanson Foundation Scholarships*

Each year scholarships are awarded from funds provided annually by the Ahmanson Foundation. Recipients must demonstrate financial need through the Free Application for Federal Student Aid (FAFSA) and be above average scholastically. A 3.0 GPA average must be maintained for renewal.

*Alpha Sigma Nu Scholarship*

Funded by the National Jesuit Honor Society, an annual scholarship is available to an undergraduate student based on financial need and scholastic achievement.

*AMDG RAD Scholarship*

This endowed scholarship is primarily designed to recognize a financially needy student with a preference to those majoring in chemistry. It is renewable by maintaining normal academic progress toward a degree.

*Harold and Marian Andersen Family Fund Scholarship*

This scholarship benefits an undergraduate student who demonstrates financial need and has high academic credentials. It is automatically renewed by maintaining at least a 2.5 cumulative GPA.

*Anna M. and Bernard G. Anderson Scholarship*

This need based endowed scholarship assists student enrolled in the College of Arts and Sciences. It may be renewed for ensuing years by maintaining at least a 2.5 cumulative GPA, making normal progress toward a degree and continued financial need.

*Regina Burnett Andolsek Scholarship*

This scholarship is awarded to a sophomore or junior nursing student who demonstrates financial need. It is renewable with a 2.0 GPA.

*Fr. Andrew M. and Edward D. Augustyn Scholarship*

First priority goes to freshmen who are members of St. Josaphat's Parish, Loup City, Neb., secondly to students from Central Catholic High School, Grand Island, Neb., and then to students from Loup City High School, Loup City, Neb. Candidates must show financial need, church participation, and community service. The award is possibly renewable.

*Ben Augustyn Scholarship*

This endowed scholarship is established to assist students in any division of the University. Students shall be of high academic standing and financially needy. Preference will be given to students graduates of a high school from Valley County in Nebraska. Renewability is based on normal academic progress to a degree.

*Leo Augustyn Scholarship*

This endowed scholarship is offered to an undergraduate student by the Financial Aid Office who demonstrates financial need and academic achievement.

*Alan Baer Tennis Scholarship*

Students participating in intercollegiate tennis, have high academic standing and demonstrate financial need are eligible for benefits from this endowed scholarship. By maintaining a 2.5 GPA, this scholarship is renewable.

*Mr. and Mrs. Jack B. Balousek Scholarship*

This award is made to a freshman who demonstrates financial need and enrolls in one of Creighton's undergraduate schools. It is renewable by meeting normal academic progression. Renewable with a 2.5 GPA.

### *Clair D. Barr Memorial Scholarship*

This award is for student-athletes who are not receiving full athletic scholarships and who consistently give of themselves 110 percent in both academic and athletic endeavors. The Directors of Athletics and Financial Aid shall determine the recipient and renewability.

### *Sally Jo Bayne Scholarship*

This award is designed to assist undergraduate students with financial need. First preference is given to students graduating from Redlands Senior High Schools, Redlands, Calif. It is renewable by making normal academic progress and the continued availability of funds.

### *Dr. Richard G. and Marilyn J. Belatti Endowed Scholarship*

This award provides assistance to students from South Dakota enrolled in any of the undergraduate divisions of the University. The University's Undergraduate Scholarship Committee shall make the selection of the recipient and a 3.5 cumulative GPA is required for renewal.

### *William E. Belfiore Memorial Scholarship Fund*

In memory of his son, Joseph F. Belfiore established this fund, designed to assist students in any undergraduate school who need financial aid in order to continue their education. The Creighton University Financial Aid Office annually selects the recipient(s) and the amount of the award. It is renewable upon 2.5 GPA and continued need. A preference is extended to students who are of Italian lineage by at least one parent.

### *Frank Earl Bellinger M.D. Scholarship*

This fund is established to assist students enrolled in the School of Nursing who demonstrate financial need and high academic achievement. It is renewable based on normal academic progress toward a BSN degree.

### *Leon and Reba Benschoter Scholarship*

This need-based scholarship provides funds to assist students enrolled in Creighton's College of Arts and Sciences or one of Creighton's health sciences divisions. The fund shall be directed to students in these areas on an alternating basis. It is renewable based on maintaining normal progress toward a degree and the availability of funds.

### *Agnes Haller Bertoldi Scholarship*

This scholarship is given to nursing students with financial need and first preference is given to new students. This scholarship is renewable with a 2.5 GPA.

### *Charles and Mary Patricia Blevens McFadden Endowed Scholarship Fund*

This scholarship provides assistance to students enrolled in any school/college at Creighton who have a permanent mobility, visibility or hearing impairment, show high academic promise and have demonstrated financial need. First priority for funds shall be directed to students with a mobility impairment and the annual scholarship value may vary. This award is renewable by maintaining satisfactory academic progress toward a degree/certificate and is awarded by the University's Financial Aid Office.

### *Elmer L. and Margaret M. Bradley Scholarship*

Funds from this scholarship shall be used to assist students with high academic standing and financial need to enroll in Creighton's College of Business Administration. Preference will be given to graduates of Nebraska high schools and is renewable by meeting normal academic progression standards and a 2.0 cumulative Q.P.A.

### *John P. and Charlotte M. Brand Scholarship*

This scholarship is established to assist students in Creighton's College of Arts and Sciences who are of high academic standing and demonstrated financial need. Preference will first be given to students majoring in mathematics. With a 2.5 cumulative GPA, the award is automatically renewed, based on the availability of funds.

### *Dr. Patrick E. Brookhouser Scholarship*

This scholarship recipient will be a student from western Iowa who demonstrates financial need and high academic ability. Preference is given to students from Missouri Valley, Iowa. If the recipient maintains normal progression toward a degree, it is renewable.

### *Mildred D. Brown Scholarship*

Preference for this \$1,500 award is given to minority high school seniors from the Omaha area. Criteria include financial need, academic achievement and high school journalistic activity. Renewable with a minimum 2.75 GPA.

### *George and Mary Ellen Burns Scholarship*

Financially needy students from the Sioux City, Iowa area, with preference to students from Heelan High School, will benefit from this endowment. Renewability is based on normal progression toward degree completion.

### *Maureen T. and Anthony F. Cafaro, Sr. Scholarship*

First priority for this scholarship is high school graduates from Marquette University High School or Divine Savior - Holy Angels High School in Milwaukee, WI, then students from the state of Wisconsin with financial need will be awarded these scholarship funds. This scholarship is renewable with a 2.50 GPA.

### *Fr. Neil Cahill, S.J. Scholarship*

Each year an award will be made to a financially needy student in the College of Business Administration, in honor of Fr. Cahill, a longtime faculty member. Candidates must be of high academic standing, and students from South Dakota will receive preference.

### *John and Ann Callahan Scholarship*

This endowment supports a varied number of scholarships each year to deserving and financially needy students enrolled in any of Creighton's undergraduate schools. The award is made by the Director of Financial Aid and may be renewed.

### *Chicago Minority Student Scholarship*

Preference for this recognition is given to students from the Chicago-land area who have participated in the LINK program and are graduates of Oak Park, Fenwick or Trinity high schools. By maintaining at least a 2.5 GPA, this scholarship is renewable.

### *OliceOdorisio Circo Spirit Scholarship*

This endowed award is given to participant(s) of the Creighton University Dance Team. Recipients are determined by Creighton's Athletic Director in conjunction with the Director of Financial Aid. Financial need is a factor and it may be renewed for future years.

### *W. Dale and Katherine Clark Scholarship*

Students who have graduated from a high school in Omaha are eligible for benefits from this fund. The scholarship is based upon academic achievement, extracurricular activity, and need. These scholarships are renewable upon the condition that the student is progressing according to the guidelines of the program in which the recipient is enrolled.

### *Dr. James R. and Bridget Condon Memorial Scholarship*

Preference for this scholarship shall first go to financially needy students who previously attended either Gonzaga H.S. or Gonzaga University in Spokane, Wash. The award is renewable based on the recipient's academic progress and fund availability.

### *Matthew B. and Marion A. Conway Scholarship*

This scholarship is awarded to needy undergraduate students with scholastic excellence. It is not renewable.

### *James and Barbara Corboy Scholarship*

This fund provides scholarships for undergraduate students who are in need of funds to continue their education and who show the potential for success. It is renewable by normal progression under University standards toward graduation.

### *James M. Cox Scholarship*

This scholarship is established to assist freshmen who reside in eastern Nebraska, with preference given to students from York and Hamilton counties. Financial need must be evident and a 2.0 GPA is required for renewal.

### *Creighton Family Tennis Scholarship*

This scholarship was established by Dr. and Mrs. James Manion. It is designated to provide scholarships to students in Creighton's Tennis Program who demonstrate the skills and aptitude necessary for academic and athletic excellence and who have financial need. This scholarship requires a 2.0 GPA for renewal.

### *Matthew E. Creighton, M.D. Scholarship*

This scholarship was established by a former Creighton University President in honor of his father. It will be awarded to financially needy undergraduate students and can be renewed.

### *Creighton University Scholarship for Women*

This award will assist women, preferably from south Omaha, who have a declared major in mathematics, computer science or the natural sciences and who have financial need. It may be renewed based on normal progression toward a degree and availability of funds.

### *Dr. James and Karen Cunningham Scholarship*

Any undergraduate student from the Black Hills region of South Dakota can receive consideration for this award. Preference will be given to graduates of St. Thomas More H.S., Rapid City, SD. It is renewable.

### *Norma Link Curley Scholarship*

Nursing students who demonstrate financial need will benefit from this fund. It is renewable by maintaining a 3.0 cumulative GPA.

### *Charles H. and Mary Lou Diers Scholarship*

This endowment supports a scholarship for an incoming freshman from the Fremont, Neb. area who demonstrates financial need and potential for success at the postsecondary level.

### *Leo and Rita Durrett Scholarship*

Undergraduate students may benefit from this scholarship which is based on academic credentials and financial need. Normal progression toward degree completion, a 2.5 GPA and the continuing availability to funds makes this scholarship renewable.

### *EducationQuest Foundation Scholarship*

EducationQuest Foundation is a private, nonprofit organization with a mission to improve access to higher education in Nebraska. Each year, funds are provided to assist financially needy Nebraska residents. The Financial Aid Office selects the recipients on an annual basis.

### *Elizabeth Fund for Nurses*

Nursing students who demonstrate financial need will benefit from this fund. Candidates must demonstrate financial need and meet the three principles of the Fleet Reserve Association; loyalty, protection and service to country. It is renewable.

### *John E. Enis Memorial Scholarship*

This scholarship is made to student-athletes who are not receiving a full grant-in-aid and show financial need. The recipient will be selected by the Athletic Director in consultation with the coaching staff the Financial Aid Director. The award can be renewed based on the availability of funds and the maintenance of at least a 2.0 cumulative GPA.



### *Eugene B. Even Scholarship*

This scholarship fund provides for two scholarships each year. One to a financially needy student in the Education Department and one in the College of Business Administration. Preference is given to seniors with a record of academic achievement.

### *John P. Fahey Scholarship*

This annual gift scholarship provides two scholarships for African American or Hispanic students who are in good academic standing and are able to demonstrate need in order to continue their education. This scholarship is renewable with a 2.5 GPA.

### *Grace and Robert Fay Scholarships*

These awards recognize outstanding academic students in the College of Arts and Sciences who have the demonstrated need for funds to continue their education. Renewal is automatic with at least a 2.0 cumulative GPA.

### *First National Bank of Omaha Scholarship*

Each year one scholarship is funded that is given to a financially needy junior or senior student who has borrowed a Stafford Student Loan from the donor. The award is not renewable.

### *Edward W and Nancy E. Fitzgerald Scholarship*

This endowed scholarship assists students enrolled in the College of Business Administration who have high academic credentials and financial need. It may be renewed for future years by maintaining at least a 2.5 cumulative GPA and continued financial need.

### *Dr. Herbert J. Funk Scholarship*

This scholarship assists students majoring in Economics with preference to students from Shelby County, Iowa.

### *Tom and Judy Garner Scholarship*

This scholarship recognizes students enrolled in the College of Business Administration who are of high academic ability and demonstrate financial need.

### *Kitty Gaughan Scholarship*

This award is made by the Financial Aid Office to undergraduate students graduating from Creighton Prep High School, Omaha, Neb. who display financial need.

### *Emalea and Zeta Gaul Scholarship*

This award recognizes a Nursing student of high academic ability with financial need and may be renewed.

### *Dr. James and Lois Gerrits Family Scholarship*

This award is made to a student enrolled in one of the undergraduate colleges of Arts and Sciences, Business Administration, or the School of Nursing who has high academic standing and demonstrates financial need. This award is renewable for future years by maintaining a minimum GPA of 2.0.

### *William M. Gordon Scholarship*

This scholarship is named in honor of the first black student to graduate from Creighton's School of Medicine in 1901 and is intended to promote the racial diversity of the student body at Creighton University. Financial need is considered when selecting recipients and a 2.5 minimum GPA is required for renewal.

### *Amelia Bunbury Graff Scholarship*

This endowed scholarship provides support to undergraduate students admitted into the Education Department and planning a career in teaching. Financial need and a demonstrated history of academic achievement at Creighton are required. A 2.5 cumulative GPA is required for renewal.

### *Ashok and Uma Gupta Scholarship*

This scholarship is made to a female senior in the College of Business Administration with interest in MIS. One award each year will be made by the Director of Financial Aid.

### *Adolph Hallas Scholarship*

This endowed fund supports four scholarships each year to students in the College of Business who are selected by the Financial Aid office based on scholastic achievement and financial need.

### *Josie Harper Nursing Scholarship*

This award recognizes a Nursing student of high academic ability with financial need and may be renewed.

### *D. Paul and Marjorie S. Hartnett Scholarship*

This scholarship helps support undergraduate students of high academic ability and who demonstrate financial need. Preference is given to Native American students first, then graduates of the Bellevue high schools in Nebraska, then Gross High School graduates residing in Sarpy County, Nebraska and finally high schools graduates from Dakota County, Nebraska.

### *William Randolph Hearst Foundation Scholarship*

Each year a scholarship is funded by the Hearst Foundation to provide financial support to a student in one of Creighton's undergraduate colleges who demonstrates financial need. Preference is given to multicultural students and is renewable with a cumulative GPA of 2.0.

### *Dr. Irvin L. Heckmann Memorial Scholarship*

Awarded to a financially needy undergraduate student in the College of Business Administration who also demonstrates high academic ability. It may be renewed by maintaining at least a 2.5 cumulative GPA.

### *Jane A. and Susan S. Hedequist Scholarship*

Dr. Robert D. Hedequist established this endowed scholarship to assist students enrolled in the School of Nursing. It is awarded to students who demonstrate need to continue their education. A 2.50 GPA is required to renewal of this award.

### *Charles F. and Mary C. Heider Scholarship*

This scholarship is open to any needy undergraduate student who demonstrates high academic credentials. It is renewable.

### *The Richard J. and Marguerite Heider Endowed Scholarship*

This scholarship is designated for a student from Carroll County, Iowa who has a demonstrated need of financial support.

### *Dr. Todd P. Hendrickson Student Athlete Annual Scholarship*

This annual gift is restricted to a student who demonstrates financial need and participates in an athletic support group, such as training, dance team, etc. The award may be renewed by maintaining at least a 2.0 overall GPA.

### *Richard L. and Peggy Herman Scholarship*

This endowed scholarship provides up to a maximum of four undergraduate awards, one per class, each year. The scholarship may be renewed by maintaining at least a 2.5 cumulative GPA.

### *Dr. Edward A. Hier Scholarship*

This scholarship is awarded to a freshman from western Nebraska who demonstrates financial need and enrolls in either the College of Arts and Sciences or Business Administration. It may be renewable.

### *Roger Holzman Scholarship*

This scholarship assists financially needy, academically worthy students enrolled in the College of Business Administration. It is renewable.

### *David M. Hoover Memorial Scholarship*

David E. and Mary Anne Hoover established this scholarship in honor of their son. Students enrolled in the College of Arts and Sciences who demonstrate financial need to continue his or her education are eligible for this renewable scholarship. A 2.50 GPA is required to continuing receiving this scholarship.

### *Gunnar Horn Scholarship*

This nonrenewable award is restricted to students with an interest in or intent to major in journalism. College test scores, financial need, and high school journalistic activities are factors in the selection process.

### *Dr. Ross C. Horning Endowed Scholarship*

This scholarship, honoring Dr. Ross C. Horning, former Professor of History, is awarded by the Financial Aid Office in conjunction with the Department of History, to a junior who has been admitted as a History major. The student must also demonstrate a background of work experience and the need for financial aid. By maintaining a 2.5 GPA during the junior year, the scholarship may be renewed for the senior year.

### *Joseph Harrison Jackson Scholarship*

This award recognizes a student in the Education Department who has achieved academic distinction within the Department, shows a sincere commitment to the teaching profession and has financial need. Juniors or seniors are eligible for consideration and the scholarship can be renewed with at least a 2.5 GPA. The Chair of the Education Department and the Financial Aid Director jointly review candidates and name the recipient.

### *Marion G. Jeffrey Memorial Scholarship*

This scholarship is awarded to a junior or senior Creighton student with a declared major in the Department of Fine and Performing Arts. Financial need is a requirement, and recommendations of candidates will be made by the Department Chair to the Director of Financial Aid. The award may be renewed by continued eligibility and the recommendation of the Department Chair.

### *Martin C. and Helen M. Jessup Scholarship*

Any student admitted to one of Creighton's undergraduate schools who demonstrates financial need is eligible for consideration of this scholarship. Preference is extended to new entering students and is renewable by maintaining normal academic progression and at least a 2.0 cumulative GPA.

### *Lavern and Thelma Johnson Scholarship*

This scholarship is open to any needy undergraduate student who demonstrates high academic credentials. It is renewable.

### *Edith and Carl Jonas Scholarship*

This award is made by the Financial Aid Office to students in need of assistance to further their education. Awards are made in a number and amount determined by the funds available and may be renewed.

### *Glenn T. Jordan Scholarship*

Undergraduates from the state of South Dakota are eligible for this scholarship, which is based on a combination of need and academic excellence. The recipient will be required to maintain a 3.0 GPA for renewal. This scholarship is awarded by the Director of Financial Aid.

### *John J. and Eloise H. Kane Scholarship*

This endowment assists students in the College of Arts and Sciences who demonstrate financial need and may be renewed for further years with normal academic progression. Recipients are selected by the Financial Aid Office.

### *Dr. & Mrs. Pierre W. Keitges Scholarship*

This scholarship is given to an CCAS student who demonstrates financial need and is from the Kansas City metro area. It may be renewed by maintaining at least a 2.5 cumulative GPA.

### *Leo Kelley Memorial Scholarship*

This competitive award is established to assist freshman applicants demonstrating financial need. It is renewable by maintaining at least a 2.5 GPA.

### *Rev. William F. Kelley, S.J. Scholarship*

This award honors Fr. Kelley's popularity and guidance of numerous students during his longevity of service to Creighton. This award provides funds to a financially needy undergraduate student of high academic potential. Preference will be made to new students and is renewable with a 2.5 cumulative GPA.

### *William F. Kelley, S.J. Scholarship for Tennis & Golf*

This endowed award is to assist student athletes who are members of the Creighton tennis and/or golf teams. Financial need is a determining factor and it may be renewed for successive years. The Creighton University Athletic and Financial Aid directors shall select the initial recipients and determine renewability.

### *Monsignor Edward R. Kelly and Joseph P. Kelly Family Scholarship*

This need-based award provides assistance to students from Iowa with high academic credentials. It is renewable by maintaining a 2.5 cumulative GPA and the continuing availability of funds.

### *Helen W. Kenefick Scholarship*

This scholarship fund is made possible by Mr. John Kenefick in honor of his wife and provides scholarship support to financially needy, high ability undergraduate students. By attaining at least a 2.5 cumulative GPA, it is automatically renewed.

### *Gertrude Beckers King Scholarship*

This endowment honors the lifetime teaching accomplishments of Mrs. King and is used to support the financial needs of a student accepted into the elementary education program. The Financial Aid Office selects recipients who are academically qualified and demonstrate financial need.

### *Adrienne Kittle Memorial Scholarship*

The Adrienne Lee Kittle Scholarship is established to assist undergraduates who are of high academic standing and demonstrate financial need. A preference shall be extended to students who are residents of Colorado. The scholarship is renewable.

### *Chris M. and Joan Kuehl Memorial Scholarship*

This scholarship assists a financially needy student from Creighton Prep High School who demonstrates high academic credentials. It is renewable.

### *William R. and JoAnn McCroy Kunkel Scholarship*

Students enrolled in Arts and Sciences who graduated from a Jesuit High School are eligible for this scholarship. To qualify, students must demonstrate financial need. It is renewable with a 2.50 GPA.

### *Metta Laughlin Scholarship*

The Financial Aid Office awards this scholarship to an academically qualified and financially needy student enrolled in any undergraduate college of the University.

### *Les and Phyllis Lawless Scholarship*

This gift provides scholarship support to any undergraduate student demonstrating financial need and academic achievement. It is renewable based on continued financial need, progress toward a degree, maintaining a 2.5 cumulative GPA and the availability of funds.

### *Len Leavitt Memorial Scholarship*

This endowed scholarship serves as a lasting tribute to his name and his everlasting belief in the good that is in everyone and the desire to see individuals succeed. In his spirit of giving, this scholarship offers something back to those students who participate in Creighton University Athletics. Student athletes who demonstrate financial need are the recipients of this scholarship. It is renewable by maintaining a 3.00 GPA.

### *Michael E. and Mary Neppl Leighton Scholarship*

The Leighton Scholarship assists students in the College of Arts and Sciences and the School of Nursing who demonstrate financial need. It is renewable with a 2.50 GPA.

### *Rev. John J. Lynch, S.J. Scholarship*

This scholarship is awarded to an undergraduate student who demonstrates high academic ability and financial need. It is renewable by maintaining at least a 2.5 cumulative GPA.

### *Lynch-Heaston Scholarship*

Initiated by the Honorable Patrick Wm. Lynch to honor his father William P. Lynch and his sister Eleanor Lynch Heaston, this endowed scholarship fund provides assistance to students in the College of Arts and Sciences planning a career in social work. Preference will be given to students with a declared major in Social Work and may be renewed by maintaining a minimum 2.5 GPA and making normal progression toward a BSW degree.

### *John L. and Carol V. Maginn Scholarship*

This scholarship is designed to assist students enrolled in Creighton's College of Business Administration who are academically qualified and have financial need. Preference is given to women and students of color. The award is renewable with a 2.5 minimum GPA.

### *Walter J. and Ruth C. Maginn Scholarship*

This scholarship is designed to assist students enrolled in Creighton's College of Business Administration who are academically qualified and have financial need. Preference is given to students of color. The award is renewable with a 2.5 minimum GPA.

### *Ralph and Margaret Mailliard Memorial Scholarship*

Founded by Mr. and Mrs. R. Dennis Mailliard, this scholarship is awarded to a minor sport student-athlete who demonstrates financial need and consistently gives 110 percent to both his/her academic and athletic endeavors. It is renewable at the discretion of the Athletic Director.

### *Yano and Cindy Mangiameli Scholarship*

This account helps student-athletes whose baseball eligibility has expired and who are within 12 credit hours of graduation. A 2.25 cumulative GPA is required for consideration and candidates must complete their degree requirements no later than the end of the Fall term following the expiration of their athletic eligibility. The Athletic and Financial Aid Directors shall select the recipient(s) and determine the award amount.

### *Betty Marchese Scholarship*

This scholarship is awarded to a financially needy student-athlete who is not receiving a full grant-in-aid. Student managers, trainers and athletes are eligible for consideration. It may be renewed by maintaining at least a 2.0 cumulative GPA and continued participation in the athletic program.

### *Matte Family Scholarship*

This scholarship is designed to assist needy students from New Mexico with a “B” or better high school grade point average. With a 2.00 GPA, this scholarship is renewable.

### *Diane McCabe Scholarship*

This scholarship pays tribute to Diane McCabe who served the School of Nursing and its students with tireless dedication for 17 years. The recipient will be a junior level nursing student who has financial need and academic promise. It can be renewed for an additional year if first received as a junior and normal progression to degree completion is evident.

### *J. Barry and Rita McCallan Scholarship*

The College and Arts and Sciences and the School of Nursing share this scholarship fund. Students must demonstrate financial need and maintain a 2.50 GPA to qualify for this renewable scholarship.

### *Margaret L. McCarthy-Spielman Scholarship*

Michael McNally and Mary Ann Spielman McNally founded this scholarship fund. It assists students enrolled in the College of Nursing with average academic standing who demonstrate financial need. This scholarship is renewable with a 2.50 GPA.

### *Thomas P. and Mary Kay McCarthy Scholarship*

This scholarship assists students enrolled in either the Arts and Sciences or Business Administration Colleges who are from Iowa and demonstrate financial need. Maintenance of at least a 2.5 cumulative GPA is required for renewal.

### *Roma Nagengast McGahan Scholarship*

This fund will provide financial support to a student enrolled in the School of Nursing who is of high academic standing and demonstrates financial need with preference to those from Montana or Nebraska. It is renewable based on maintaining academic progress and continuing financial need.

### *Fr. Richard D. McGloin, S.J., Scholarship*

The Richard McGloin Scholarship Committee will annually award scholarships to undergraduate students who have shown academic achievement, with preference given to relatives of Creighton University alumni. It is renewable by maintaining satisfactory progress toward a degree.

### *McGuire-Holden Family Scholarship*

Established by Drs. Daniel J. McGuire and Andrea McGuire in honor of their parents, Pat and Rita McGuire and Warren and Dorothy Holden, this endowment recognizes students from rural Iowa or Nebraska who have high academic credentials and financial need. The scholarship may be renewed with normal academic progression within the College of Arts and Sciences.

### *Everett and Helen Meister Scholarship*

This endowed scholarship is awarded to students enrolled in the College of Arts and Sciences and the School of Nursing with high academic credentials from Iowa. Students from Carroll County are given preference. It is renewable with a 2.50 GPA.

### *Memorial Scholarship*

Awards from this endowed account are made by the Director of Financial Aid to academically qualified students who demonstrate financial need.

### *Olga Dyba Mericle Scholarship*

Created from the estate of Mrs. Olga Mericle, this award recognizes a female undergraduate student majoring in chemistry. Financial need is required along with a 3.5 cumulative GPA for consideration and renewal.

### *Joseph Sr. and Sundina Miniace Scholarship*

Beginning with the 2002-03 academic year, this need-based award will help to support and recognize students enrolled in the College of Arts and Sciences with a demonstrated interest in creative writing. Maintaining a cumulative 2.5 GPA, normal progression toward a degree and the availability of funds makes this a renewable scholarship.

### *Rita A. Molseed and G. Melvin Hickey Scholarship*

This endowed scholarship is granted to an Arts & Sciences student with high academic standing and financial need. A 2.5 cumulative GPA is required for renewal.

### *Daniel and Mary Ellen Monen Scholarship*

Each year these competitive scholarships are awarded to incoming freshmen who demonstrate above-average scholastic ability and financial need. They are renewable with a 2.5 GPA.

### *Harry G., Jr. and Marion M. Montgomery Scholarship*

One freshman student will be selected to receive this award. Recipient will be selected based on financial need. The recipient should also show a keen interest in learning, working toward the betterment of mankind, and believe that participation, without excessive fanfare, in worthwhile programs is a duty of good citizenship. This award is renewable with a 2.5 GPA.

### *Rev. Michael G. Morrison, S.J. Scholarship*

This scholarship was established by the Creighton University Board of Directors and friends to honor the Reverend Michael G. Morrison on his retirement as Creighton's President after 19 years. It will provide support to needy undergraduate Native American students who are members of federally recognized tribes. Preference will be given to graduates of Red Cloud Indian School of Pine Ridge, SD.

### *G. Robert Muchemore Foundation Grant*

The Muchemore Foundation provides full tuition scholarship awards to undergraduate students attending Creighton University. Recipients must have graduated from a Nebraska high school with at least a "B" average. The award may be renewed for three more years by maintaining normal progress to a degree, at least a 3.0 overall grade point average, 15 credits per semester, and the availability of funds.

### *Edward D. Murphy Scholarship*

This endowment honors a man who gave decades of tireless service to the University. Any undergraduate student with financial need and the capacity to achieve may receive consideration. Renewal requires a 2.75 grade point average.

### *Nelnet, Inc.*

Funded by one of the largest student loan corporations in the nation, this gift is directed to Nebraska residents who demonstrate financial need and are enrolled on a full time basis. Each year the Director of Financial Aid selects recipients based on this criteria and available funds.

### *Orscheln Industries Scholarship*

This scholarship assists students from areas served by an Orscheln store to attend an undergraduate school at Creighton. Freshman are given first priority and must also demonstrate financial need. The scholarship is renewable with at least a 2.0 grade point average.

### *Dr. Ray Palmer Baseball Scholarship*

This scholarship is provided by Dr. Raynold Palmer, M.D. '32, the team physician from 1936-42 for the New York Giants baseball club, now the San Francisco Giants. The award is reserved for members of the baseball team with the recipient determined by the Athletic Department.

### *Richard Pearlman Memorial Scholarship*

This award is given to students enrolled in the Emergency Medical Services education program who demonstrate a passion for emergency medical services work and who have financial need. Special consideration will be given to students who have overcome socio-economic hardships to pursue their education. Maintaining at least a 2.0 cumulative GPA is required for renewal consideration.

### *Peter J. Phelan Memorial Scholarship*

This award is available to both new and current students enrolled in any undergraduate college. Priority is given to financially needy students from Cedar Rapids, Iowa; then from Linn County, Iowa; and lastly from the state of Iowa. It may be renewed based on continued need and satisfactory academic progress.

### *Leonard H. and Madeline Kenney Powers Scholarship*

This award recognizes an outstanding student in the School of Nursing who exhibits academic excellence and the potential to bring honor to the nursing profession. Candidates must show financial need and preference will be made to freshman students. By maintaining at least a 2.5 cumulative GPA, the scholarship is automatically renewed.

### *John A. Quinlan Memorial Scholarship*

This award is made by the Financial Aid Office to a financially needy student enrolled in the College of Business Administration. This scholarship may be renewed for future years as funding allows.

### *Jerry Rasmussen Scholarship*

This scholarship is awarded to needy undergraduate students with a physical or mental disability. It is renewable with a 2.00 GPA.

### *Mark and Karen Rauenhorst Scholarship*

Two scholarships are made each year from this fund; one to a student in the College of Arts and Sciences and the other to an Accelerated Nursing student. Recipients must show need in meeting their high education costs and maintain satisfactory academic progress.

### *Robert and Betsy Reed Scholarship*

Robert and Betsy Reed established this endowed scholarship to assist students enrolled in the College of Business Administration. Students must have high academic standing and demonstrate financial need to qualify for this award. It is renewable with a 2.50 GPA.

### *Dr. John R. and Beverly Bartek Reynolds Scholarship*

This scholarship fund is awarded to pre-medicine students in the College of Arts and Sciences who have at least a 'B' average and financial need. This scholarship requires a 2.5 GPA for renewal.

### *Kent P. and Donna C. Saylor Scholarship*

Students with financial need and high academic standing are the beneficiaries of this endowed scholarship. The scholarship may be renewed, based upon the students' maintaining a 2.50 GPA and availability of funds.

### *Leon Schmidman Memorial Scholarship*

This award is given to College of Business Administration juniors with an interest in marketing, who have financial need and a minimum GPA of 2.5. It may be renewed. Recipients are selected by the Dean of the College of Business Administration and the Director of Student Financial Aid.

### *Scholarship for Women in Business*

This annual scholarship recognizes a female business major with at least a 'B' average. Students from Iowa are given first preference, then students from Nebraska. This award is not renewable.



### *Louis and Alma Schreiber Scholarship*

This competitive scholarship is awarded annually to undergraduate students demonstrating financial need. It is renewable provided satisfactory academic progress is maintained.

### *John A. Scigliano Scholarship*

Academically qualified students who demonstrate financial need and are either members, children or grandchildren of members of St. Thomas More Church, Knights of Columbus Council #652 or are graduates of Fr. Flanagan's Boys Home are eligible to apply. A separate application is required and available from Creighton or any of the above organizations. Renewability is not automatic, but a prior recipient is allowed to apply again for consideration.

### *William and Ruth Scott Scholarship*

This scholarship assists students in either the College of Arts and Sciences in a pre-med program or who are already in the School of Medicine to achieve their goal of becoming a physician. Primary consideration will be given to students from Eastern Europe, especially students from Poland, or any other foreign student who demonstrates the need for funding and high academic ability and achievement. The award may be renewed based on the student's academic progress and the availability of funds.

### *Barbara and Don Shellenberg Scholarship*

This scholarship is established to assist students in the College of Business Administration. It provides scholarships to students who are able to demonstrate the need for financial assistance. It is renewable by maintaining a 2.5 cumulative GPA, making normal progression toward a degree and the continued availability of funds.

### *Jesse J. Shelton Scholarship*

This scholarship honors a man employed at Creighton for 19 years who left a legacy of racial and ethnic harmony upon his death in 1997. Because of his love of education and his admiration for those who teach, a student of color enrolled in the Education Department will be the recipient of this scholarship. It is renewable with a 2.5 GPA and Scholarship Committee approval.

### *V.J. and Angela Skutt Scholarship*

Two entering freshmen from South Dakota are selected each year with preference given to prelaw and business administration students. Selection is made on the basis of financial need and academic performance. At least a 3.0 GPA average is required for renewal.

### *Dr. Patrick and Christine Smith Scholarship*

This scholarship is available to deserving and financially needy students enrolled in any of Creighton's undergraduate schools. Freshman receive priority consideration and the award is renewable with normal academic progression toward a degree.

### *Smola-McCormick Scholarship*

This endowment assists undergraduate students who demonstrate financial need and academic achievement. It is restricted to graduates of Mercy High School, Omaha, Neb. who have maintained a "B" average or better.

### *Donald W. Spielman Scholarship*

Michael McNally and Mary Ann Spielman McNally endowed this scholarship for students in the College of Business Administration. Students with average academic standing and financial need will benefit from this scholarship. By maintaining a 2.50 GPA, it is renewable.

### *William Stockdale Minority Scholarship*

This scholarship recognizes a minority student from the greater Chicago area enrolled in an undergraduate program at Creighton. Preference is given to students of African-American heritage. A minimum 2.0 GPA and normal progression toward graduation allows for automatic renewal.

### *TierOne Bank Scholarship*

Sponsored by TierOne Bank of Lincoln, Nebraska, this scholarship is awarded annually to a senior student in the College of Business Administration who is a Nebraska resident and has demonstrated financial need.

### *Virginia Roehrig Tomczak Scholarship*

This scholarship is provided by the estate of the donor and is awarded by the Financial Aid Office to students of high academic standing and who demonstrate financial need. The award is renewable with a 2.5 cumulative GPA.

### *Dennis L. Toohey Memorial Scholarship*

Recipients of this award will be students of color who demonstrate high academic ability and the need for assistance. A minimum 2.0 GPA is needed for renewal.

### *Margaret Trondle Zenner Scholarship*

This endowed scholarship is directed to students in either the Colleges of Arts & Sciences or Business Administration. Recipients shall have high academic standing and demonstrate financial need. It may be renewed by maintaining at least a 2.5 cumulative GPA and normal progression to a degree.

### *Richard and Helen Upah Scholarships*

College of Business Administration students, preferably from the South Omaha area, benefit from this fund. Financial need is considered in making a selection. Renewal will be considered by maintaining a 2.0 GPA.

### *The VT Industries, Inc. Scholarship*

This endowed scholarship will provide assistance to students in any Creighton undergraduate school/college. Preference is given to students whose parent is employed by VT Industries, Inc. If none is identified, a student from northwest Iowa is selected. Recipients must have high academic standing and financial need. It is renewable by maintaining at least a 2.5 cumulative GPA and continued financial need.

### *Roger F. and Mary A. Warin Scholarship*

This endowment supports students in the College of Arts and Sciences who have financial need, high academic standing with preference given to students from single-parent homes.

### *Gerald J. Wieneke, M.D. Scholarship*

This endowment helps to support undergraduate students who demonstrate financial need and high academic ability. Preference will be given to students from Palo Alto County, Iowa, then to students from an area outlined by the towns of Emmetsburg, Carroll, Ames, Marshalltown and Mason City, Iowa. Finally, any student from Iowa may be considered.

### *Wiesner Family Scholarship*

This scholarship is awarded to a junior or senior student in the College of Arts and Sciences with at least a cumulative college 3.0 GPA. The recipient must also demonstrate financial need and show history of community service. It may be renewable.

### *Rev. Roswell Williams, S.J. Scholarship*

Students enrolled in the department of Journalism and Mass Communication are considered for this recognition. Candidates are selected based on an intent to or a declared major in journalism, above average academic standing and financial need. Freshman are given priority and the award is renewable based on the criteria above and by sustaining at least a 2.5 overall GPA.

### *Jimmy Wilson Jr. Memorial Scholarship*

This scholarship remembers a Creighton alumnus and Omaha police officer, killed in the line of duty. It is awarded to a financially needy undergraduate student from Nebraska enrolled in the College of Business Administration. A minimum 2.5 GPA is required for renewal.

### *Yanney's Kids Scholarship*

This scholarship assists students from the Omaha area and is sponsored by Mr. Michael Yanney, an Omaha businessman. Preference is given to students of color. Scholarship consideration is renewable by achieving normal progression to a baccalaureate degree.

### *A. A. and E. Yossef Scholarships*

Awards from this gift are made to students of the Jewish faith who are enrolled in any undergraduate school. Made by the Director of Undergraduate Admissions, scholarship recipients must show above average academic performance. Awards may be offered to new and continuing students and are renewable with a 2.5 cumulative GPA.

### *Patrick and Peggy Zenner Scholarship*

This endowment assists students enrolled in either the College of Arts and Sciences or the College of Business Administration. Candidates must show financial need and high academic credentials.

### *Outside, Private Scholarships*

A scholarship(s) you have secured from an outside source must be reported to the Financial Aid Office and may comprise all or a portion of your aid award. Receipt of an outside award may result in a revision of the financial award offered by Creighton. Normally, any revision occurs first in loan or employment programs.

Receipt of a full-tuition outside scholarship will exclude a student from receiving the monetary value of his/her Creighton University scholarship. However, students will be accorded the recognition of a University award, and should an outside scholarship be forfeited, the University would review its offer subject to the stipulation of the program.

## **GRANTS**

Creighton University uses the Free Application for Federal Student Aid to determine eligibility for all grants. Each year a new application must be filed to qualify for grants for the following academic year. A grant does not have to be repaid.

### *Federal Pell Grant*

This Federal program provides grants to those students who meet the eligibility criteria established by the U.S. Congress. The exact amount of a Pell Grant will depend on your eligibility, the money appropriated by Congress to fund the program in any given year and your enrollment status.

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

The FSEOG is awarded to undergraduate students demonstrating exceptional financial need. These grants vary annually depending upon the amount allocated by the government and the student's need. Pell grant recipients receive first priority.

### *Federal Academic Competitiveness Grant (ACG)*

This grant is awarded to 1<sup>st</sup> and 2<sup>nd</sup> year students who are Pell Grant recipients and who have completed a rigorous high school curriculum, as defined by the U.S. Department of Education. First year students can receive up to \$750 per year and second year students can receive up to \$1,300 per year. A 3.0 cumulative GPA is required for second year students. These awards will likely be determined in early to mid summer and may require a revision to previous need based grant awards.

### *Federal SMART Grants*

This grant is awarded to 3<sup>rd</sup> and 4<sup>th</sup> year Pell Grant recipients who have a cumulative GPA of at least 3.0 and majoring in certain programs of study as defined by the U.S. Department of Education. The maximum grant is \$4,000 per year and may replace other need based grant funds previously awarded.

### *Nebraska State Grant Program*

Funding from the federal government and the State of Nebraska provides Nebraska residents with support through this program. The Financial Aid Office matches applicants to the criteria set forth by the Nebraska Coordinating Commission for Postsecondary Education and selects eligible recipients. Funding is limited and variable each year.

### *Creighton University Grants*

Creighton awards grants that are based on documented financial need. The amount of the grant will vary depending upon your need. Full-time enrollment status is required.

### *Tuition Grants*

Tuition grants are available to children of University employees. Receipt of a full-tuition grant will preclude a student from receiving the monetary value of any Creighton University scholarship, and/or institutionally funded grant. Employees must complete the Tuition Remission Application available from the Human Resources Office, and otherwise be eligible based on specific program criteria.

### *Family Remission*

For students first enrolled at Creighton University after May 1, 2004, a \$1,500 grant will be given to students meeting the criteria listed below. For students enrolled at Creighton University prior to May 1, 2004, a 25% reduction in the semester tuition charge will be awarded. A Family Remission is available to the second, third, and any other immediate family member when two or more are registered as full time students in the same term. Immediate family is defined as father, mother, husband, wife, son, daughter, brother or sister. This reduction is applicable only to students enrolled in the College of Arts and Sciences, Business Administration, Nursing (four-year program), and University College. The first member of the family may be enrolled in any school/college of the University. However, if the first member is enrolled in the Graduate School, the second and third members will be eligible for the reduction only if the graduate student is registered for eight or more hours in a semester.

**When the person to whom the percentage reduction is to be calculated is already receiving other types of aid, the reduction granted will be calculated on the difference of tuition minus all other grant and/or scholarship funds. Family Remission applicants receiving a full-tuition internal scholarship or remission will not be allowed the monetary benefit of any other Creighton University scholarship or remission. If the first member of the family has received a full-tuition internal scholarship, the reduction will not apply to the second member.**

## ***ATHLETIC SCHOLARSHIPS***

Creighton University is a member of the National Collegiate Athletic Association (NCAA) and participates at the Division I level in several men's and women's intercollegiate sports. Athletic grants-in-aid are available and administered in accordance with NCAA rules and coordinated with other University, federal, state and private third-party student financial assistance programs. Specific information on athletic scholarships can be obtained from the Director of Athletics.

## LOANS

**RECENTLY ENACTED CHANGES TO THE HIGHER EDUCATION ACT OF 1965, AS AMENDED, MAY ALTER THE TERMS, AWARD AMOUNTS, ELIGIBILITY REQUIREMENTS, DEFERMENTS AND OTHER ASPECTS OF THE FEDERAL LOAN PROGRAMS SHOWN UNDER THIS SECTION. INFORMATION UNDER EACH FEDERAL LOAN PROGRAM IS SUBJECT TO CHANGE WITHOUT NOTICE.**

A loan is a type of financial aid that is repaid per the terms of the promissory note. Loan applications requiring a separate application (i.e., Stafford) must be received by the Financial Aid Office no later than one week prior to the end of the semester so the application can be certified prior to the last day of the semester.

### *Federal Perkins Loan*

This loan, which is funded by the Federal government, has an interest rate of five percent per year. No payment on the loan is due and no interest accrues while the student is enrolled in school at least half-time. Interest begins to accrue and repayment begins nine months after the student is no longer enrolled in school at least half-time.

Students may receive up to \$15,000 during their total undergraduate careers and up to \$30,000 during both their undergraduate and graduate/professional careers. **The student must complete an exit interview online prior to leaving Creighton University.**

Partial loan cancellation privileges are available for borrowers who enter certain fields of teaching, or who teach in designated schools. In addition, there are various conditions for which payment and interest are deferred. Deferment and cancellation provisions are listed on the promissory note.

Repayment of the loan is made to the Creighton University Student Loan Accounts Office. During repayment, the student will be billed on a monthly basis and must make a minimum monthly payment of \$40; students have a maximum repayment period of 10 years.

**Students must complete the online entrance interview and promissory note to receive Perkins Loan funds. The Business Office will provide information to recipients.**

### *Federal Nursing Loan (FNL)*

The Health Manpower Act of 1958 set up a loan fund for students seeking a degree in nursing. These loans are interest free as long as the student is enrolled as at least a half-time student in the School of Nursing. Simple interest at the rate of five percent and repayment of principal begin nine months after the student leaves the University or the School of Nursing; at that time he/she also enters the repayment period which extends for a maximum of 10 years. Repayment is deferred if the student reenters the same or another such school within the nine-month grace period, during periods of active service in the military or Peace Corps, and during periods spent as a full-time student pursuing advanced professional training in Nursing. Interest does not accrue during periods of deferment.

**The student must complete an exit interview online prior to leaving Creighton University.** Repayment is made to the Creighton University Student Loan Accounts Office. During repayment, students will be billed monthly and must make a minimum \$15 monthly payment. **Students must complete the online entrance interview and promissory note to receive Federal Nursing Loan funds. The Business Office will provide information to recipients.**

### *Federal Subsidized Stafford Student Loan*

A student may borrow from a bank, savings and loan association, credit union, or other lender, and a state or other private nonprofit agency will stand behind the loan. All students must demonstrate financial need to be eligible for this subsidized loan. The amount a student may borrow depends on the student's financial need but may not exceed the yearly limits. An undergraduate student may borrow up to an aggregate maximum amount of \$23,000. An origination fee may be paid by the student and it will be deducted from the loan before it is disbursed. The Federal government pays interest on the loan while the student is in school. Please refer to our webpage at [www.creighton.edu/finaid](http://www.creighton.edu/finaid) for the most recent terms, interest rates, conditions and annual amounts of this loan program.

### *Federal Unsubsidized Stafford Loan*

**An unsubsidized** Stafford Student Loan is available to students not qualifying for a subsidized loan. Basic terms of the loan are identical except the borrower is responsible for interest while in school. The Federal government **does not** make interest payments. The sum of both subsidized and unsubsidized Stafford loans may not exceed the annual or aggregate dollar limits listed above for dependent students. For independent students, the maximum yearly limits are \$4,000 or \$5,000, depending on grade level.

Deferments are available for a variety of situations and are listed on the promissory note. It is the borrower's responsibility to secure, complete and submit deferment requests in a timely manner.

Information on how to apply for a Stafford Loan will be included with the award letter sent from Creighton's Financial Aid Office. The Master Promissory Note (MPN) is completed only by first-time borrowers at Creighton. Applications should be submitted by July 1 to ensure that funds are available at fall registration.

### *Federal Parent Loan (PLUS)*

A parent of an undergraduate student may borrow funds from a bank or credit union. The PLUS loan is limited only by the total cost of education less other aid and has no aggregate maximum. Proceeds will be disbursed in two installments made payable to the school and the borrower. Repayment of principal and interest begin 60 days following the date of the second disbursement of loan proceeds. The interest rate change is fixed at 8.5 percent.

Your enrollment status during any term or the length of the academic program may limit your eligibility for Federal loans.

## **SHORT-TERM LOANS**

Various University-Controlled Emergency Short-Term Loans are available to students for documented emergency expenses.

Eligibility: Currently enrolled Freshmen, Sophomore, Junior, and Senior students in the College of Arts and Sciences, College of Business Administration, and School of Nursing.

Amount: Up to \$200 a semester as fund balances permit.

Procedure: Applications are available through the Student Financial Aid Office. No short-term loans are offered during the first two weeks or final week of a semester, and none are available during the summer.

Terms: Any emergency short-term loan advanced must be repaid prior to the next semester's registration.

The following loan funds are available for a limited number of loans:

Ak-Sar-Ben Loan Fund; The William E. Belfiore Memorial Student Loan Fund; Catherine

B. Currie Memorial Loan Fund; The Frank G. Ciochetto Memorial Loan Fund; The Bing Crosby Loan Fund; The Reverend Francis X. Reilly, S.J. Loan Fund; Father Michael Sheridan Memorial Loan Fund; The Student Loan Fund; The Webster Student Loan Fund; the Neil Cahill Loan Fund; and the St. Joseph Alumni Loan Fund.

The Agnew Loan Fund was established in 1931 by students of the University in honor of the late Very Reverend William H. Agnew, S.J., a former President of the University. This fund is administered by a special committee of the Student Board of Governors. Loans up to \$150 a semester are made to finance unforeseen emergency educational expenses and must be repaid in six months. Applications are available through the Student Board of Governors.

**Note: Transcripts of credits are released only when short-term loans have been repaid in full.**

### *Summer School Financial Aid*

Financial aid during any summer term is normally limited to Pell Grant or Stafford Loan eligibility. University scholarships and other aid programs are not available. The Financial Aid Office has an institutional Summer Aid application which must be secured from and returned to the Financial Aid Office no later than May 1. Funding received during summer terms may affect aid funding for ensuing fall/spring terms.

### *Satisfactory Academic Progress*

For all students in an undergraduate program, Creighton University administers a time frame for checking satisfactory progress of not more than one academic year which includes Summer, Fall, and Spring terms regardless of the semester in which the student entered.

Creighton University's minimum academic progress requirements are as follows:

At the end of each spring semester, students must have a cumulative pass rate of at least 75 percent for all hours completed versus attempted and have a cumulative grade point average at least equal to the grade level requirement. The minimum GPA requirement is 1.75 for freshmen status and 2.0 for all other grade classifications. Failure to meet these standards will cause immediate termination from all Federal aid programs and University need-based aid programs.

Satisfactory progress will be monitored on a cumulative basis each year at the end of the Spring Semester. Grades of "AF", "F", "NP", "UN", "WF", "X", incompletes and withdrawals will not count as credits earned, but will count as credits attempted.

Baccalaureate Degree seeking students in Arts and Sciences, Business Administration, Nursing, or University College may receive financial aid for a total of 170 credit hours attempted or until the degree is acquired, whichever comes first. Students in University College seeking an Associate Degree may receive financial aid for a total of 85 credit hours attempted or until the Associate Degree is obtained, whichever comes first. Eligible students in University College seeking a certificate may receive financial aid for a total of 50 credit hours attempted or the course work required to complete the academic program, whichever comes first.

### *Transfer Students*

All transfer hours will be counted as part of the satisfactory academic progress requirements. Students must maintain the required GPA and the 75 percent completion rate of hours attempted versus hours completed.

### *Termination*

Financial aid termination will occur if the student fails to meet either the required GPA or 75 percent of the cumulative hours attempted. No federal or other need-based aid will be awarded to a student in termination status.

Reinstatement of aid eligibility will occur when the student meets the minimum GPA and 75 percent of the cumulative hours attempted. It is the student's responsibility to notify the Financial Aid Office of possible reinstatement of eligibility.

### *Appeal*

If extenuating circumstances have affected a student's progress, a written appeal must be received by the Financial Aid Office within 30 days of the date of the termination notification.

The following circumstances may qualify for a legitimate appeal:

- a. Student illness requiring physician's care.
- b. Major illness or death in the student's immediate family (spouse, mother, father, sister, brother, child, grandparent).

The appeal may be submitted by the student and/or parent along with appropriate documentation. Appeals will be reviewed and a written response sent to the student within 10 days of the decision. Creighton University reserves the right, at any time, to review any individual case should the situation warrant.

## *STUDENT EMPLOYMENT*

### *Federal Work-Study*

If you wish to earn a portion of your educational expenses and can demonstrate financial need through the FAFSA, you may qualify for the Federal Work-Study program. Earnings under Federal Work-Study **are not credited** to your account. You will receive a paycheck every two weeks based on the number of hours you have worked.

Eligible students are paid competitive hourly pay rates, starting at \$6.50 per hour for freshman students, with regular pay increases as the students progress. Students work at jobs on campus assigned to them through the Student Employment Office. A number of off-campus community service jobs are also available through summer programs. The Financial Aid Office determines the number of hours you may work, based on your award value. Your exact work schedule should be designed flexibly so it won't interfere with classes.

A Federal Work-Study award normally requires approximately 10 hours per week during the academic year. You must assume a normal employer-employee relationship under the program. If you fail to assume this relationship, you may lose your Federal Work-Study award.

### *Student Employment Services*

Departments and offices on campus hire a number of students each year in such areas as Academic and Administrative offices, Campus Recreation, Campus Libraries, the annual Phon-a-thon, Admissions, the Student Center and SODEXHO Dining services. Current listings can be viewed at <http://www.creighton.edu/studentemp>. All off-campus jobs, including part-time, internships and full-time jobs, are posted through CU Career Services (<http://www2.creighton.edu/careercenter>). At the time of hire, all U.S. students employed on campus must be prepared to show driver's license or student ID and one of the following: original Social Security card or birth certificate or U.S. Passport. International students must show U.S. Visa with I-94 and I-20.



## STUDENT SERVICES

When admitting a student, Creighton does so with a sincere concern for the student's well-being. With this in mind, the following services, in addition to those described elsewhere in this bulletin, are designed to assist each student to attain fulfillment in the college environment.

### *CAREER SERVICES*

#### *Career Advising and Academic Planning*

The Career and Academic Planning (CAP) Program is designed to assist students in reaching their academic and career goals by providing valuable resources in one convenient location. The Center is available to students seeking basic advising regarding their academic preferences and course requirements, course selection, clarifying career goals, career options, vocational testing, internships, and career-related, part-time employment. Career counselors are available to meet with students on an individual basis. The CAP Program is located in the Career Services Office in Room B03, Brandeis Hall.

#### *Internships*

The Career Services Office maintains information and listings for local, regional, and national internships. Sophomores are encouraged to contact the office prior to their junior year regarding the application process and specific qualifications. All internships are listed online through Creighton CareerTrak.

#### *Employment*

The Career Services Office, located in Room B03, Brandeis Hall, offers opportunities for employment through its On-campus Recruiting Program, Resume Referral System, and comprehensive Job Listing Service. All of these functions are run through CareerTrak. The Career Resource Library houses volumes of current information on specific companies, job trends, industry profiles, graduate schools and salaries.

#### *Programs*

The Career Services Office sponsors a number of seminars and workshops on resume writing, interviewing techniques, and job search strategies. Career fairs in the fall and spring semesters provide students with the opportunity to visit with representatives from a variety of businesses and organizations regarding career trends, graduate school, internships, and employment opportunities. Additional information can be found at: <http://www2.creighton.edu/careercenter>.



## *COUNSELING AND GUIDANCE*

### *Counseling and Psychological Services*

These professional services are designed to help students actualize themselves in the areas of effective learning, appropriate educational and vocational decision-making, and social and personal adjustment. In conjunction with counseling interviews, a complete selection of psychological tests and inventories are available to students so that they may explore values, interests, aptitudes, abilities, personality and lifestyle. Lifestyle includes both academic and social behaviors such as study skills and abusive drinking.

The staff are professionally trained psychologists and counselors who assist students with a wide range of developmental and crisis concerns. Students expressing concerns in areas such as studying, interpersonal relationships, communication, decision-making, choices of majors or occupations, or lifestyle and values clarification may benefit from talking with a staff member.

The staff members strive to be understanding, warm, and accepting—not making decisions for the student but assisting him or her in self-direction. Staff are specially trained and have experience with the counseling and psychological needs of the university student. Confidentiality is practiced and information is not released out of the service without the written consent of the student.

The Counseling and Psychological Services is located in Room 203, Brandeis Hall, 280-2733. Please call for an appointment.

### *Other Services*

All entering freshmen are required to take the ACT Assessment or the Scholastic Aptitude Test (SAT). These tests provide results that are used for placement and counseling purposes. The test scores and other data also provide a basis for helping students to understand themselves better and to plan for more effective college careers. Students are welcome to consult with the Dean or with counselors for analysis of their capabilities as revealed by the test data.

*Campus Ministry*—Members of the Campus Ministry team are ready at any time to talk over in a friendly and confidential manner, the plans and problems which any student may wish to bring to them. The chaplains, Campus Ministry Student Advisors in the residence halls, the chaplains of the professional schools as well as the pastoral staff at St. John's are likewise available for helping students. Pastors of other Christian denominations, and leaders of other religious traditions are also available to students in conjunction with Creighton's Interfaith Alliance

*Veterans' Service*—is provided by the Registrar's Office. Veterans and others eligible for educational benefits administered by the Veterans Administration are given assistance concerning proper and advantageous use of their benefits and to simplify and expedite transactions with the government. Information and application forms for VA educational benefits are available at the Registrar's Office.

## *STUDENT ORIENTATION*

Summer Preview and Welcome Week are the foundations of Creighton's Orientation Program. Summer Preview is held in the summer and is an opportunity to familiarize parents and students with the University and its services. Students meet with a faculty advisor and can review their class schedules at this time. Welcome Week is held several days before classes begin in August. All new students, including freshmen and transfer students, are involved in activities designed to acquaint them with the many aspects of University life and help them begin to feel comfortable in their new surroundings. They also meet other students, go through registration procedures, and meet with faculty advisors.

## *STUDENT SUPPORT SERVICES PROGRAM*

The Student Support Services Program at Creighton seeks to provide academic, emotional, and financial support for students who meet established Federal and program guidelines. In order to be eligible for program services, students must demonstrate academic need for program services and meet one or more of the following criteria: first-generation student status (neither parent has graduated from a four-year college with a baccalaureate degree); meet income guidelines established by the U.S. Department of Education; or has a disability and needs academic accommodation.

Enrolled participants receive academic advising, personal and career counseling, tutorial assistance, and assistance in applying for financial aid. A limited number of scholarships are available to program participants based on unmet financial need.

The Student Support Services offices are located in Markoe Hall, west of the Old Gymnasium. Call (402) 280-2749 for more information.

## *STUDENT HEALTH SERVICES*

### *Mission Statement*

Student Health Services is committed to care of the whole person. Our Jesuit tradition integrates the physical, mental, spiritual, and emotional aspects of each student's life. We do this as a campus health resource, primary care provider group, and insurance plan sponsor. Our services will support students in the performance of their academic endeavors. Our students will be educated and prepared to make healthy choices throughout their lives.

### *Student Health Services*

The variety of services available at Creighton University Student Health Services will meet the health care needs of most students. Every effort is made to help students obtain appropriate consultation or referral when additional or specialized services are required. A physician, physician's assistant, or nurse practitioner provides services. **All currently enrolled Creighton University students are eligible for services.**

#### **Services Available:**

- Allergy Injections
- Physicals
- EKG's
- Immunizations
- Laboratory
- Travel Health Consultation
- Pap Smears
- Radiology
- Health Promotion
- Educational Materials

Services are supported by student fees, personal insurance, and/or self pay. Immunizations, laboratory tests, x-rays, splints, specialist referrals, etc. not covered by personal/family health insurance will be the financial responsibility of the student.

### *How to obtain Student Health Services*

Call 280-2735, Monday through Friday. Appointments should be made for all services, except emergencies. It is important that you keep scheduled appointments and that you arrive on time. If you will be late or must cancel, please call as soon as possible. Your courtesy will enable the best use of our available appointment times.

Students will be seen in the Student Health Services office located in the Kellom Valley (Shops) Center at 2530 Cuming Street.

**It is essential that a current insurance card be presented at each visit.**

### *Who Provides the Services?*

Physicians, and nationally-certified physician's assistants and nurse practitioners provide services assisted by an RN and auxiliary staff of certified medical assistants and clerical personnel.

Medical specialty and dental care is provided by referral to physicians and dentists who are faculty members of the Schools of Medicine and Dentistry at Creighton University. Mental health services are provided by referral to Counseling and Psychological Services, the Department of Psychiatry in the School of Medicine, psychiatrists, and/or therapists within the community.

### *Participating Providers*

Our providers are participating providers with many insurance plans. It is important to check with your insurance plan to verify if services rendered at Student Health Services will be a covered expense under your plan. Claims are submitted to the insurance carrier indicated by the student at the time services are provided.

### *After Hours Care*

Urgent care services are available at local urgent care centers. These centers have laboratory and x-ray services and can treat most acute illness and injury. Creighton University Medical Center's Emergency Department is conveniently located adjacent to the Creighton campus. Any after hours care received will be the financial responsibility of the student.

### *Services Available During the Summer*

Services provided during the summer are the same as those offered during the academic year. These services are provided through personal health insurance and/or self-pay.

**Student Health Services is responsible for maintaining the records that relate to the following University requirements. Please contact us if you have any questions.**

### *University Immunization Requirements*

Creighton University policy requires that all students born on or after January 1, 1957 provide documentation of two doses of **Measles, Mumps and Rubella vaccine prior to enrollment**. The first given at 12-15 months of age or later and the second given after 4 years of age or later, and at least one month after the first dose. History of disease is not acceptable.



## ***UNIVERSITY HEALTH INSURANCE REQUIREMENTS***

It is Creighton University policy that all full-time students be covered by a comprehensive health insurance plan\* for the entire academic year.

NOTE: The premium for the University-sponsored Student Insurance Plan will remain on the student's account unless a properly completed waiver form and a copy of both sides of a current health insurance card are received by Student Health Services before the deadline. **This information is required on an annual basis.**

\*A comprehensive health insurance plan fulfills the following requirements:

1. Coverage includes most inpatient and outpatient health services and is comparable to the University sponsored Plan.
2. Coverage is in effect for the entire Academic year.
3. Coverage includes comprehensive benefits when out of area (away from home).

\* Automatic enrollment into the University sponsored Plan will occur and the tuition statement will reflect a charge for the entire premium whenever Student Health Services becomes aware of a lapse in the student's health coverage.

### ***Additional Immunization Requirements for Health Science Students***

In addition to the Measles, Mumps, and Rubella requirement, all Health Science students must comply with the following list of requirements. Current CDC standards are used to determine compliance.

- Hepatitis B: documentation of vaccine series and/or a positive antibody titer is required.
- Annual Tuberculosis screening. If you have had a positive PPD in the past, please contact Student Health Services for further instruction.
- Varicella immunity as determined by a positive antibody titer or a series of two doses of vaccine.
- Diphtheria/Tetanus: Documentation of vaccine series, three doses with last dose within 10 years.
- Polio: Documentation of vaccine series, three doses with either OPV (oral Sabin) or IPV (inactivated Salk).

All of the above services are available for a fee at Student Health.

### ***Student Insurance Plan***

As a service to students, the University sponsors a comprehensive health insurance plan. This plan is available at a reasonable group rate and provides year-round coverage, wherever the student may be, as long as the semi-annual premium is paid. This plan provides benefits for laboratory tests, x-rays, and prescriptions. The services of designated sub-specialists and specific services are available in the Preferred Provider Network.

Contact Student Health Services for complete details.

*For additional information please contact Creighton Student Health Services at: 2530 Cuming Street, Omaha, Nebraska 68131-1632, Phone: (402) 280-2735, Fax: (402) 280-1859, <http://www.creighton.edu/StudentHealth>.*

# ADMINISTRATION AND SUPERVISION

## ACADEMIC ADMINISTRATION

### *Student Responsibility*

Students are personally responsible for completing all requirements established for their degree by the University, the student's College or School, and Department. It is the student's responsibility to inform himself or herself of these requirements. A student's advisor may not assume these responsibilities and may not substitute, waive, or exempt the student from any established requirement or academic standard. The University reserves the right to modify requirements at any time.

Although the University encourages the widest amount of student responsibility, with a minimum of administrative regulation, it expects each student to maintain appropriate standards in his or her academic and personal life. The University reserves the right to terminate the registration of any student who does not meet the standards acceptable to the University.

### *The Academic Year*

The academic year is divided into two semesters. The first begins in late August and ends before the Christmas holidays; the second begins in mid-January and ends in May.

There is a one week midsemester holiday in the fall, a short Thanksgiving recess, a vacation of approximately a month between semesters, and a week in the spring.

### *The Summer Session*

The annual Summer Session includes a three-week pre-session and two five-week terms. These offer significant opportunities to entering freshmen, to students who wish to accelerate their studies and to satisfy degree requirements, to teachers wishing to obtain credit for state certificates and/or for professional improvement, etc. A variety of short workshops and institutes on topics of current interest is part of each summer's offerings. Students may register in one, two, or all three of the basic components of the Summer Session: The Pre-session, Term 1, and Term 2. The student may earn three credits in the Pre-session and up to six semester hours of credit in each of the two five-week terms.

### *Unit of Instruction*

The semester hour is the unit of instruction used for computing the amount of work required for graduation. One semester hour is equivalent to one fifty-minute period of recitation or lecture per week for one semester. Two or three 50-minute periods of laboratory are equal to one period of recitation or lecture.

### *Course Levels*

The arrangement and numbering of course offerings according to levels, from introductory and fundamental to advanced, are explained on page 165. Lower-division courses are numbered from 100 to 299; upper-division from 300 to 499; advanced upper-division courses in which graduate students may enroll and receive graduate credit from 500-599; and graduate from 600 to 999.

### *Student Classification*

Students in the Colleges of Arts and Sciences and Business Administration are classified according to the total number of semester hours and quality points they have earned:

Freshmen—those having up to 23 sem. hrs.

Sophomores—those having at least 24 sem. hrs. and a GPA of at least 2.00.

Juniors—those having at least 60 sem. hrs. and a GPA of at least 2.00.

Seniors—those having at least 96 sem. hrs. and a GPA of at least 2.00.

Students in the School of Nursing are classified according to the completion of specific curricular requirements and not merely on the basis of total semester hours.

### *Class Attendance*

Creighton University's primary obligation is the total education of students. Implicit in the achievement of this goal will be the student's conscientious attendance of classes and laboratory sessions. Freshmen in particular will be held accountable for regular attendance.

Teachers in the undergraduate colleges will, at the start of the semester, announce their specific procedures concerning class attendance, verification of excused absences, etc., preferably in written form. It is the student's responsibility to note these procedures and to follow them carefully. (No teacher will drop, the last class before or the first class after, a University recess).

Officially excused absences for University-sponsored affairs must be cleared with the Academic Dean by the responsible faculty moderator.

A student who has been unavoidably absent but cannot make up the work of the course will be permitted to withdraw without penalty. The student receives a "W" and no credit. A student who is dropped from a course for unexcused absences will receive the grade of "AF" (absence failure). Once a grade of "AF" has been assigned, the student is not eligible to receive a "W" (withdrawal).

### *Pass/No Pass Option*

Beginning with their Sophomore year, students in good standing (cumulative GPA of 2.00 or above) may elect to register for courses on a Pass/No Pass (P/NP) grading basis. A limit of twelve Pass/No Pass hours will be permitted the eligible student. Courses to be taken on a "P/NP" basis must be selected from those outside the student's major and its requisite courses, from outside the student's minor and from outside educational courses leading to teacher certification. No Core courses may be taken as "P/NP." Course prerequisites must be met. Such hours passed will be counted toward graduation but will not be included in the grade-point average. Likewise, an NP does not affect the GPA. The grade of "C" will be the lowest pass grade. The "P/NP" status of a student is not made known to the instructor, who grades the student in the traditional manner. The final grade is converted to "P" or "NP" when the student's end-of-term grade report is processed. For College of Business Administration students, "P/NP" will only be accepted for non-restricted electives.

Approval to take a course on a Pass/No Pass basis must be obtained from the Dean after registration. The deadline for signing up for Pass/No Pass is the same as for changing from credit to audit, i.e., four weeks following the first day of classes. No change in status from Pass/No Pass to regular grading or vice versa will be allowed after the first four weeks of the semester.

## *Examinations and Grading*

Final examinations in all courses are held at the close of each term (semester or summer session). Written tests and quizzes are held from time to time during the term, with or without previous notice to the students, at the discretion of the instructor. A student's scholarship rating in each of his or her courses is determined by the combined results of examination and class (and laboratory) work. This rating is reported by the instructor in accordance with the following grading system.

A	outstanding achievement and an unusual degree of intellectual initiative
B+	high level of intellectual achievement
B	noteworthy level of performance
C+	performance beyond basic expectations of the course
C	satisfactory work
D	work of inferior quality, but passing
F	failure—no credit
AF	failure for excessive absences
WF	failure because of unauthorized withdrawal
I	work incomplete
X	absence from final examination
AU	audited course only—no credit
P	pass—credit
NP	not pass—no credit
SA	satisfactory work
UN	unsatisfactory work (failure)—no credit
W	official withdrawal from a course—no credit

“SA” and “UN” are used to report student performance in a course that does not permit regular grading. It is not an individual grading option as is P/NP, but applies to all students in the course. Credit earned with “SA” (Satisfactory) may be counted toward graduation but is not included in the grade-point average; however, “UN” (Unsatisfactory) functions as a failure in computing the grade-point average.

## *Incomplete and Absence from Final Examination*

The “I” and “X” are marks used, as explained below, to reflect a student's irregular status at the time final grade reports are due.

An “I” (incomplete) is given to a student who has failed to fulfill all requirements of a course. The student may petition the instructor before the close of the term to assign an end-of-term mark of “I” indicating incomplete performance. The instructor may agree to this mark when, as a result of serious illness or other justifiable cause, the work cannot be completed by the end of the term. An “I” (incomplete) will not be granted to a student who has been excessively absent during the term or who has simply failed to complete the work of the course before the close of the term without an exceptionally good reason. Students in the College of Arts and Sciences must submit a Completion of Course Agreement form in order for an incomplete to be assigned. This form indicates the work to be completed and the deadline for completion. Both the student and professor must endorse the form.

The responsibility for completing all course work rests with the student. The maximum time limit for clearing an incomplete is one year from the start of the course. After one year the student must reregister for and satisfactorily complete the course if credit is desired. The Incomplete carries no penalty and does not affect the grade-point average. Student records will be audited periodically and students who show a consistent pattern of Incompletes may be placed on academic probation.



An “X” is given to a student who missed the regularly scheduled final examination, and the “X” functions as a failure until it is cleared. If the reason for absence is acceptable to the Dean, an examination must be taken as soon as possible but not later than one month from the date of the regular final examination. A permanent grade is recorded after the final examination is taken.

A student who is both incomplete and absent from the final examination will receive both an “I” and “X” (IX), which will function as a failure until cleared as specified above.

When an “I” or “X” (original entry) is cleared and a final grade, either passing or failing, is assigned, the final grade is entered on the student’s permanent academic record in place of the “I” or “X.”

### *Graduating Senior Examinations*

Graduating seniors with a “B” or better average in a particular course, with the approval of the instructor, may be released from the final examination in that course. This option would, of course, be open only in those courses where adequate testing has been accomplished to satisfy the teacher in his or her determination of the grade. This decision will normally be made after the last regular class meeting of the semester. This policy in no way precludes a senior with a “B” or better from taking the final exam, should he or she choose to do so.

### *Grade Reports*

Grade reports are made available to students each midsemester and at the end of each term (semester or summer) via the web. Access to the system may be gained by accessing Banner Self Service (Registrar's home page) and entering the student's ID number (typically the student's NetID) and the student's PIN.

### *Grade Appeals*

The instructor has jurisdiction in determining grades; however, the student has the right to appeal a grade that the student believes to be in error. The appeal process may involve the following steps (the issue may be resolved at any level):

1. The student confers with the instructor involved.
2. The student and instructor (preferably together) confer with the chairperson of the department.
3. The student and instructor (preferably together) confer with the Dean of the College or School to which the department is attached.
4. In rare cases, when the foregoing steps do not resolve the issue, the student may initiate a formal written appeal to the Dean. Normally, the Dean will forward such appeal to the appropriate committee for its review and recommendation. A formal appeal should not be entered upon lightly by a student, nor lightly dismissed by an instructor. A formal written grade appeal may be made no later than the sixth week of the following semester.

Note: Nursing students should consult the School of Nursing Handbook for that school’s appeal procedure.

## *Policy on Academic Honesty*

In keeping with its mission, the University seeks to prepare its students to be knowledgeable, forthright, and honest. It expects and requires academic honesty from all members of the University community. Academic honesty includes adherence to guidelines established by the University, its Colleges and Schools and their faculties, its libraries, and the computer center.

“Academic or academic-related misconduct” includes, but is not limited to, unauthorized collaboration or use of external information during examinations; plagiarizing or representing another’s ideas as one’s own; furnishing false academic information to the University; falsely obtaining, distributing, using or receiving test materials; falsifying academic records; falsifying clinical reports or otherwise endangering the well-being of patients involved in the teaching process; misusing academic resources; defacing or tampering with library materials; obtaining or gaining unauthorized access to examinations or academic research material; soliciting or offering unauthorized academic information or materials; improperly altering or inducing another to improperly alter any academic record; or engaging in any conduct which is intended or reasonably likely to confer upon one’s self or another an unfair advantage or unfair benefit respecting an academic matter.

Further information regarding academic or academic-related misconduct, and disciplinary procedures and sanctions regarding such misconduct, may be obtained by consulting the current edition of the Creighton University Handbook for Students. However, students are advised that expulsion from the University is one of the sanctions which may be imposed for academic or academic-related misconduct.

## *Good Academic Standing—Grade Point Requirements*

To remain in good academic standing and to qualify for advancement and graduation, students, besides needing a given quantity of credit hours, must also achieve a certain quality of excellence determined on the basis of grade points.

Grade points are obtained by multiplying the number of semester hours assigned to a course by the grade point value of the grade received in the course:

A yields 4 points for each hour	C yields 2 points for each hour
B+ yields 3.5 points for each hour	D yields 1 point for each hour
B yields 3 points for each hour	F, AF, and WF yield no points
C+ yields 2.5 points for each hour	

One’s grade-point average (GPA) is based only on work taken at Creighton and is computed by dividing the total grade points earned by the total number of semester hours of credit attempted including hours for courses failed (unless repeated and passed) and excluding credit hours for courses graded “AU, P, NP, SA, or I”. Thus 16 hours at straight “C” grades would give 32 grade points. Plainly, this GPA would be 2.00 (32 grade points earned divided by 16 semester hours attempted).

The terms “quality point” and “grade point” are synonymous, as are “quality point average” and “grade point average” The latter is abbreviated GPA.

### *Grade Point Average Requirements*

A cumulative grade point average of at least 2.00 is required for graduation. The average shall be computed only on the basis of all work attempted at Creighton.

Any student whose cumulative grade point average is below 2.00 at the end of any semester will be placed on academic probation. Removal of academic probation requires achievement of a cumulative grade point average of 2.00.

Whenever a student's grade point average falls below 2.00, the student may not be permitted to carry a full schedule of studies. The student may also be advised to drop all extracurricular activities.

Any freshman whose cumulative grade point average is not at least 1.75 at the end of the freshman year may be dropped for poor scholarship. In some cases if a Freshman student's GPA is exceptionally low at the end of the first term of the first year, the student may be dismissed for poor scholarship.

Any student whose cumulative GPA is not at least 2.00 at the end of the sophomore year or at the end of any subsequent semester may be dropped for poor scholarship.

Any student who has been dropped for poor scholarship may not apply for readmission to the University until a full year has elapsed. If readmitted, the student is placed on final academic probation.

### *Satisfactory Progress Toward a Degree*

A student meeting the foregoing minimum grade point requirements will be considered making satisfactory progress if:

1. The student has acquired a minimum of 24 credit hours after one academic year, 48 credit hours after two academic years, and 72 credit hours after three academic years.
2. The student by the start of the third academic year, has declared in writing a specific degree in a major program of study, and successfully completes a reasonable number of courses in that program each semester thereafter.

### *Repeating Courses*

A student cannot repeat a course for which a final grade of "C" or better (including "P" and "SA") has been earned. A student who has received a final grade of "D" or "F" (including "NP" or "UN") in a course may repeat the course. The course to be repeated must be repeated at Creighton. The student must register for this course like any other course. The credit and quality points for the highest grade earned (one grade only) will be used to calculate the student's GPA. As with all other coursework attempted, the original course entry and grade remain on the student's permanent record and will appear on any transcript issued. Similarly courses with marks of "AF", "WF", "AU", or "W" also remain permanently on the student's record. If such a course is repeated, a new course entry and a grade are entered in the term in which the course is repeated. Also see the policy on auditing courses on page 45.

### *Graduation Honors*

Graduation honors are based only on a student's work at Creighton. To be eligible for honors, the student must have completed at least half of the prescribed hours for the degree in the undergraduate college at Creighton. Honors are applicable to the baccalaureate degree only. The diploma of a student who qualifies for honors is inscribed as follows:

- Summa cum laude—for a GPA of 3.850-4.000
- Magna cum laude—for a GPA of 3.700-3.849
- Cum laude—for a GPA of 3.500-3.699

### *Dean's Honor Roll*

Full-time undergraduate students who have completed a semester with a grade point average of 3.5 or higher and with no grades of "I", "IX", or "X" are placed on the Honor Roll for that semester in their respective college or school. Full-time students with a grade of "SA" (Satisfactory) or "P" (Pass) in a given semester qualify for the Dean's Honor Roll if a 3.5 quality point average is earned in the graded courses. Honor Roll designation appears on the student's report card, and names of the students are posted on bulletin boards in the Deans' offices.

### *College of Business Administration Dean's Honor Roll for Social Responsibility*

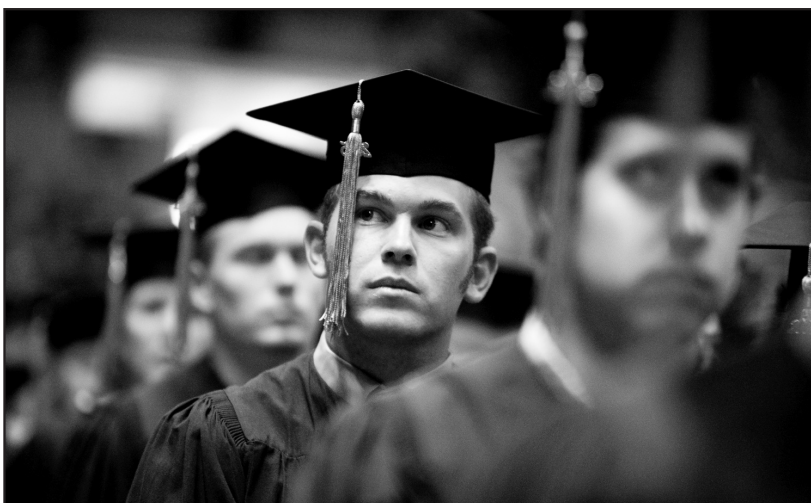
The College of Business Administration recognizes that business should be a positive force in society. Hence, business education must include an appreciation of the relationship between business and social responsibility. Toward this end, the College of Business Administration's Honor Roll for Social Responsibility honors undergraduate students who take the opportunity to serve their community.

Full-time undergraduate students in the College of Business Administration who have performed 24 hours of confirmed community service between the first and last class days in a semester (excluding finals week) and have attended one of the Synthesis Sessions during that semester are placed on the Dean's Honor Roll for Social Responsibility for that semester. Honor Roll designation appears on the students' transcripts; Certificates of Achievement are mailed to the students' home addresses; and names of the students are publicly posted.

### *Further Degree Requirements*

A minimum of 128 semester hours is required for graduation, and students should check with their advisors and deans to be sure they have taken all the appropriate courses and fulfilled all necessary requirements. In addition, a cumulative quality point average of at least 2.00 is required. The Senior year consisting of the final 32 semester hours must be completed in attendance at Creighton University.

Before graduation, transfer students must secure credits in all prescribed courses pertaining to the degree sought. A minimum number of hours of a student's major must be taken at Creighton as follows: in the College of Arts and Sciences, at least 15; in the College of Business Administration, 15-18; in the School of Nursing, 20. Students must earn at least 48 semester hours at Creighton to qualify for a degree.



Each candidate must file with the Registrar a formal application for the degree. **Candidates must complete and return all forms of the application (Application for Graduation, Graduate Activity Form, and Cap and Gown Form) to be considered for a degree.** Return all forms to the Registrar's office by the deadline (October 12, 2006 for graduation at end of first semester, by February 12, 2007 for graduation at end of second semester and by June 7, 2007 for graduation at the end of Summer Session) to be conferred at the end of the first semester or second semester or Summer Session. Those applicants who do not complete all degree requirements or who are not approved must complete another application by the following deadline to be conferred at the end of the first semester or second semester or Summer Session. More information and printable forms at <http://www.creighton.edu/publicrelations/events/commencement>

## *COMMENCEMENT*

Annual University Commencement Ceremonies are held in May and December. Students who complete their degree programs in the Spring Semester are required to be present at the Annual Commencement Exercises in May to receive their degrees. Students who complete their degree programs in the Fall Semester may attend Commencement ceremonies in December. Diplomas will be mailed upon confirmation of the completion of all degree requirements by the respective Dean. Students who complete their degree programs during the summer receive their degrees at the end of the Summer Sessions, but no ceremony is held; these students may participate in the preceding May Commencement. All candidates who receive degrees at the end of a Fall Semester or Summer Session are listed in the next Annual Commencement Program.

**NOTE: A student may participate in only one Commencement ceremony for each degree granted.**

To participate in the May Commencement, a candidate must have successfully completed all degree requirements and must be approved for graduation, or be able to and plan to complete all requirements by the date for conferral of degrees in the following August. The respective deans of the Schools and Colleges of the University shall have the responsibility for clearing all participants in the Commencement. Those participants in the May ceremony who have not completed all degree requirements shall be so designated in the Commencement Program.

## *DISCIPLINE*

The primary purpose of discipline is educational in nature and is aimed at the development of responsible student conduct.

The University has the right and the duty to protect its educational purpose through setting and maintaining standards and regulations considered essential to its purpose. The Student Handbook describes disciplinary procedures and penalties, which may include suspension or expulsion from the University.

## *CONFIDENTIALITY OF STUDENT RECORDS*

Creighton's policy relating to the confidentiality of student records is in keeping with the "Family Educational Rights and Privacy Act" (FERPA). Information about students or former students will not be released without the consent of the student other than in the exceptions stated in the Federal Act. FERPA affords students certain rights with respect to their educational records. They are:

1. The right to inspect and review the student's educational records within 45 days of the day the University receives a request for access.

Students should submit to the Registrar, Dean, Department Chair, or other appropriate official, a written request that identifies the record(s) they wish to inspect. The University official will make arrangements for access and notify

the student of the time and place where the records may be inspected. If the records are not maintained by the official to whom the request was submitted, that official shall advise the student of the correct official to whom the request shall be addressed.

2. The right to request the amendment of the student's educational records that the student believes are inaccurate or misleading.

Students may ask the University to amend a record that they believe is inaccurate or misleading. They should write the University official responsible for the record, clearly identifying the part of the record they want changed, and specify why it is inaccurate or misleading.

If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. The right to consent to disclosures of personally identifiable information contained in the student's educational records, except to the extent that FERPA authorizes disclosures without consent.

One exception which permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including Public Safety personnel and Student Health staff); a person or company with whom the University has contracted (such as an attorney, auditor, collection agency, or the National Student Clearinghouse); a person serving on the Board of Directors; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

A school official has a legitimate educational interest if the official needs to review an educational record in order to fulfill their professional responsibility.

Upon request, the University discloses educational records without consent to officials of another school in which the student seeks or intends to enroll.

FERPA also allows the University to disclose directory information without the written consent of the student. Directory information is information contained in an educational record of a student which generally would not be considered harmful or an invasion of privacy if disclosed. Directory information includes the student's full name, the fact that the student is or has been enrolled, full-time/part-time status, local and permanent address(es), e-mail address, telephone number(s), date and place of birth, dates of attendance, division (school or college), class, major field(s) of study and/or curriculum, degrees and awards received, participation in officially recognized activities and sports, weight and height of members of athletic teams, photograph, and previous educational agency or institution attended by the student.

A currently enrolled student may request any or all directory information not be released by completing and filing with the Registrar's Office a statement entitled "Student Request To Restrict Directory Information." Such filing of this request shall be honored for the remainder of the term in which the request is filed, except that such restriction shall not apply to directory information already published or in the process of being published.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by Creighton University to comply with requirements of FERPA. The name and address of the office that administers FERPA are:

Family Policy Compliance Office  
U.S. Department of Education  
600 Independence Avenue, SW  
Washington, DC 20202-4605

## *TRANSCRIPTS*

A copy of a student's academic record is called a transcript and is issued by the University Registrar upon written request of the student. A special Request For Transcript form is available at the Registrar's Office, A226 or on the Registrar's website <http://www.creighton.edu/Registrar/transcript.html>. Copies are not made of transcripts of records on file from other institutions. Any additional copy of these must be requested by the student direct from the original issuing institution.

## *SPECIAL PROGRAMS*

### *Ratio Studiorum Program*

The name "Ratio Studiorum" emanates from a Jesuit "plan of studies" bearing the name "Ratio atque Institutio Studiorum Societatis Jesu" and adopted in 1599 as a formal program for study at the university level. In an analogous manner, Creighton's Ratio Studiorum Program is designed to help students understand how the Academy works, how the curriculum functions to form them as young women and men, and how they can expect to grow and develop in the university setting. The Program focuses on the need for students to plan their curriculum, their career, and a way of life that concentrates on ethical living, service to others, a search for truth and justice in public and personal life, and a search for the relationship with the Almighty. Informed choice is the goal, freedom and knowledge are the tools in this discernment, and faculty and professional staff are the guides.

First year students begin the program through a Ratio Studiorum 100 level class. This is a one credit, graded course designed to facilitate a smooth transition from high school by examining key elements of collegiate life, such as the meaning and value of a liberal arts education; the Jesuit, Catholic history and values; and the vocational aspirations and challenges common to all freshmen. The class meets weekly during the first semester in groups of about 20 students and is taught by a Faculty Preceptor who serves as the academic advisor throughout the first year. A Decurion or peer academic leader (a junior or senior invited by the Faculty Preceptor) joins him/her in this venture.

The 100 level courses are as follows:

RSP 101 – College of Arts and Sciences

RSP 102 - School of Nursing

RSP 103 – College of Business Administration

RSP 104 – Honors Students in CCAS

RSP 105 – Transfer Students (CCAS/COBA) with less than 38 credit hours

The program continues sophomore year through RSP 200. Students in the College of Arts and Sciences can choose to declare a major if prerequisites are met or select a Pre-Major Advisor. The Pre-Major Advisor will serve as the student's academic advisor until a student is accepted into a major department or program. In addition, a variety of discernment activities and events designed to assist sophomores with selection of a major and/or career are open to students from all three undergraduate colleges.

### *Skills Development Program*

The Skills Development Program for Freshmen assures that all students acquire necessary skills in major areas: writing, mathematics, and study skills. Participation may be required by the Dean's Office for those whose test scores indicate a need for further work in a skills area. Courses in this program are not applicable to CORE requirements (with the exception of CHM 105) but earn college credit.

Courses in the Skills Development Program include the following:

ENG 100	Introduction to Composition
MTH 103	Intermediate Algebra
CHM 105	Introductory Chemistry
FRS 120	Strategies for Academic Success

### *MILITARY SCIENCE*

The Reserve Officers' Training Corps was authorized by the War Department and established at Creighton University in 1919. The program is a cooperative effort contractually agreed to by the Army and Creighton University as a means of providing junior officer leadership. It insures that men and women educated in a broad spectrum of American institutions of higher learning are commissioned annually in the Army officer corps.

Creighton's Military Science Program is an elective two-year or four-year program taken as any other elective course. Up to 20 credit hours may be earned through the Army ROTC Program. The four-year program includes a Basic Course, taken during the Freshman and Sophomore years, and an Advanced Course, normally taken during the Junior and Senior years. There is no service obligation connected with enrollment in the Basic Course. An academic minor is also available in Military Science.

#### *Program Objectives*

The program provides training designed to qualify students for an Army Commission while also preparing them for civilian executive and management positions. Hence, the student may earn a commission while earning an academic degree in a discipline of his or her choice. Creighton's four-year nursing program as well as the accelerated nursing program are just two examples of degree programs available. The curriculum is interdisciplinary and encourages reflective thinking, assessment, goal setting and problem solving. The books, uniforms and equipment needed by students for ROTC courses are furnished.

Leadership training is the core of the Military Science program and is required each semester. It is accomplished, in part, through a leadership laboratory conducted each week and field exercises held each semester. The Basic Course develops an understanding of teamwork and leadership techniques. Leadership is enhanced through practical application in drill, leader reaction exercises and tactical exercises in field situations. Additionally, there are opportunities for optional adventure training in Air Assault, Airborne and Mountain Survival Training. Advanced Course students plan, organize and conduct the Basic Course leadership program, thereby enhancing their management and supervisory skills. Further growth is achieved through field exercises and enrichment activities, Ranger Training, Physical Training, and Cadet Troop Leadership Training.

#### *Advanced Course*

Although Military Science courses may be taken for credit by any student, only those students formally enrolling in and successfully completing the Advanced Course will receive a commission. If selected for and enrolled in the Advanced Course, the student must agree to complete the remaining two years of ROTC and to accept a commission, if offered, upon completion of the course.



Each Advanced Course student must attend a 32-day Leader Development and Assessment Course, normally during the summer between their junior and senior year. The course consists of the practical application of the instruction and skills learned at Creighton, with emphasis on leadership and physical fitness. Students are paid travel expenses to and from camp as well as a daily working salary. All accommodations, clothing, equipment, and food are provided.

A two-year program is available for students at or transferring to Creighton. Students enrolling in the two-year program must attend and successfully complete a four-week Leader Training Course prior to entering the Advanced Course. Upon entering the Advanced Course, the two-year students follow the same curriculum as all other Advanced Course students. All students enrolled in the Advanced Course receive monthly subsistence payments of \$250-400 during the school year.

### *Army Reserve/Army National Guard Simultaneous Membership Program (SMP)*

The ROTC Program is normally a four-year program; however, under the Simultaneous Membership Program (SMP), qualified juniors (those who are veterans or those who have successfully completed three years of Junior ROTC or Basic Training with a reserve or national guard unit) may upon the approval of the PMS enter the Advanced Course and earn a commission. The student may apply for Active Duty with the U.S. Army upon graduation.

Qualified SMP students may apply for scholarships under the Guaranteed Reserve Forces Duty Scholarship program. This is a two-year scholarship that could be worth nearly \$38,400. Other scholarships may also be available. In addition to the \$350 per month and the Reserve unit pay, SMP students are still eligible for selected Montgomery GI Bill college assistance programs. Total monetary entitlements for even a nonscholarship SMP student during the two-year program could exceed \$28,000.

### *Special Opportunities*

Students who have completed 12 months of service in one of the U.S. Armed Services and have achieved junior standing may upon approval of the PMS be granted credit for the Basic Course and enrolled in the Advanced Course. ROTC credit earned at other universities is transferable to Creighton.

Numerous associated and allied programs and extracurricular activities are available to ROTC students. CTLT (Cadet Troop Leadership Training) and NSTP (Nurse Summer Training Program) are great examples of opportunities available to ROTC students. During the summer after junior year, ROTC students are given the opportunity to travel to various Army Posts throughout the world. These are designed to broaden their knowledge and understanding of the military profession and to allow them to acquire and develop new skills.

### *ROTC Scholarships*

Four- and three-year scholarships are available to all high school seniors who apply and are selected to receive these scholarships while they attend an institution offering a four-year Army ROTC program.

Those students receiving a four- or three-year ROTC scholarship also receive a full room and board award from the University. The value of this University award is equal to actual room and board charges as contracted with the University. Changes in room and/or board plans within a term will constitute an equivalent adjustment to the award. This award is activated when the ROTC scholarship becomes effective. To receive the room supplement, a student must enter Creighton with an ROTC scholarship commitment. Three-year scholarships are available to college students who elect to enroll in the ROTC program. Army ROTC scholarships pay up to \$20,000 per year for tuition, \$600 per year for books and fees, and \$250 per month during the school year. Four, three, and two year nursing scholarships are also available to qualified nursing students.

Following Advanced Camp, nursing students may elect to attend a three-week nurse summer training program at one of many U.S. Army medical centers around the country for an intensive nurse preceptor program.

ROTC students who gain acceptance to a professional school in the medical field are eligible to apply for the Uniformed Services Health Professions Scholarship Program, which pays the recipient a monthly stipend plus tuition and other academic expenses. These scholarships are offered in medicine, osteopathy, and psychology (Ph.D., clinical or counseling). Students desiring graduate and professional education are permitted to apply for deferment of service obligation resulting from their ROTC enrollment until the completion of such additional studies. This educational delay is open to those pursuing advanced medical, legal, and seminary professions. Feel free to call if there are any questions at (402) 280-1155/2828.

### *AIR FORCE ROTC (Aerospace Studies)*

Air Force Reserve Officer Training Corps (AFROTC) training leading to a commission as a second lieutenant in the United States Air Force is available to qualified Creighton students through the AFROTC Program at the University of Nebraska at Omaha (UNO). Creighton students register for the courses at Creighton but attend Aerospace Studies Classes at UNO while pursuing their degree at Creighton. This opportunity results from an agreement between Creighton and UNO that permits Creighton students to participate in the Air Force ROTC Program at the University of Nebraska at Omaha.

High school seniors may compete for three and four-year AFROTC scholarships. Winners of these scholarships will receive a full residence hall room and board supplement upon activation of their scholarship at Creighton University. (Three-year scholarship winners must attend Creighton during their freshman year to receive this benefit when their scholarship is activated.) The two kinds of Air Force ROTC scholarships that can be applied at Creighton are the Type I and Type II. A Type I scholarship is an uncapped scholarship. Any and all tuition and fees are paid by the Air Force. A Type II scholarship is capped at \$15,000 yearly for tuition and fees. The student covers anything above that amount. In both cases \$600 a year is paid to offset the cost of books and each student receives \$300-\$450 per month for 10 or 12 months in the year. This is a non-taxable allowance designed to offset the other costs associated with being a student. The Aerospace Studies courses are listed on page 291.

Students who did not apply or receive an AFROTC scholarship during high school are eligible to compete for two- and three-year scholarships during their freshman or sophomore year in college. To be eligible to compete, students should enroll in AFROTC classes.

Sophomore cadets may compete for a pre-health slot. After graduation, AFROTC cadets may apply for entrance into the Armed Forces Health Professions Scholarship Program. Upon acceptance into medical school, the scholarship covers tuition, books, and lab fees. Up to four years of graduate-level health professions schooling is authorized.

If interested in any of these programs please contact AFROTC Detachment 470, University of Nebraska at Omaha, to obtain further information (phone 402-554-3166).

## *NATIONAL SCHOLARSHIP COMPETITIONS*

Every year, Creighton students apply for a range of highly prestigious national scholarships. The College of Arts and Sciences' Honors Office (Hixson-Lied Science Building, Room G06) provides information and advice about applying for these awards.

Fulbright Grants allow scholars, professionals and artists to travel to other countries to research and study. <http://www.iie.org/>

The Barry M. Goldwater Scholarship and Excellence in Education Program awards scholarships to students intending to pursue careers in science, mathematics, and engineering. <http://www.act.org/goldwater>.

The Clare Booth Luce Foundation provides support to women in the sciences, mathematics, and engineering. The program is administered in three categories: undergraduate scholarships; graduate fellowships; and faculty positions. <http://www.hluce.org/>.

The Jacob K. Javits Fellowship Program offers financial assistance to students pursuing graduate study in specific fields leading to a doctoral degree (or a master's degree when the master's degree is the terminal highest degree in the selected field of study.) <http://www.ed.gov/programs/jacobjavits/index.html>.

The James Madison Foundation sponsors fellowships to a select group of individuals desiring to become outstanding teachers of the American Constitution. <http://www.jamesmadison.com>.

Marshall Scholarships finance young Americans to study for a degree in the United Kingdom. Up to forty Scholars are selected each year to study either at graduate or occasionally undergraduate level in any field. <http://www.marshallscholarship.org>.

The National Science Foundation funds roughly 900 graduate fellowships each year, including awards for women in engineering and computer and information science. Fellowships provide three years of support for graduate study leading to research-based master's or doctoral degrees in the fields of science, mathematics, and engineering supported by the NSF. <http://www.nsf.gov/>

National Security Education Program (NSEP) David L. Boren Graduate Fellowships enable U.S. graduate students to pursue specialization in area and language study or to add an international dimension to their education by supporting students pursuing the study of languages, cultures, and world regions that are critical to U.S. national security but are less frequently studied by U.S. graduate students. <http://www.iie.org/programs/nsep/default.htm>

Rhodes Scholarships, the oldest international fellowships, bring outstanding students from many countries around the world to the University of Oxford (U.K.). American Rhodes Scholars are selected through a decentralized process by which regional selection committees choose 32 Scholars each year from among those nominated by selection committees in each of the fifty states. <http://rhodesscholar.org>.

Various Rotary Club Fellowships are funded by Rotary International and reflect the varied interests and occupations of Rotarians worldwide. <http://www.rotary.org/>

The Harry S. Truman Scholarship Foundation recognizes college juniors with exceptional leadership potential who are committed to careers in government, and provides them with financial support for graduate study. <http://www.truman.gov>.

# PROGRAMS OF STUDY-I

## CREIGHTON COLLEGE OF ARTS AND SCIENCES

### *GOALS OF LIBERAL EDUCATION*

Creighton University's College of Arts and Sciences offers a liberal education whose primary goal is encouraging each student to become a free and responsible person. To further this goal, a liberal education delimits the natural and human boundaries within which free choice occurs, urges its students to see the need for such choice, and provides them with the means for making that choice responsibly. Creighton's students are encouraged to be free and responsible through systematic encounter with the various traditional liberal arts and empirical sciences. The College understands this encounter—and freedom's ultimate goal—in an explicitly Christian context, one defined by the Catholic Church, vivified by the contributions of the Jesuit community, and shared by the many other religious and lay faculty and administrators serving the University.

Creighton's liberal education is and must be eminently practical as an education for life. A liberal education grows with its possessors and helps guide them through a lifetime of free and responsible choices. The student must be a willing, active, and earnest partner in this educational process. The reward of this partnership is a deepened appreciation for life and a strengthened ability to respond to its demands with critical intelligence. Thus, Creighton's liberal education demands responsible involvement from its students and promises, in return, personal and academic enrichment.

### *LEARNING OUTCOMES*

Creighton College of Arts and Sciences recognizes a set of specific abilities that distinguish those individuals who have been educated in the liberal arts within the Jesuit tradition. It believes that such individuals will have learned to integrate academic study into a broader commitment to the life of the mind, heart, imagination, and spirit. The College's faculty, staff, and administrators have therefore set as their goals that all students graduating from the College will have learned to:

- Communicate clearly and effectively in written, spoken, mathematical, and artistic languages;
- Think critically about information, assumptions, and arguments found in multiple forms of academic and cultural discourse;
- Integrate broad and diverse learning with at least one individually chosen academic discipline or professional field;
- Appreciate the Christian, Catholic, and Jesuit intellectual traditions in the context of historical, cultural and spiritual concerns;
- Apply a reasoned approach to effective decision-making according to sound and coherent ethical principles; and
- Relate an active commitment to learning, truth, and justice to a life of service and to the development of the global community.

### *GENERAL REQUIREMENTS FOR A BACHELOR'S DEGREE*

As the means for achieving these goals, the Creighton College of Arts and Sciences requires each student to select a program of courses that combines three elements. The **Core Curriculum** assures broad exposure to academic and cultural discourse, the acquisition of communicative and reasoning skills, and the exploration of ethical values within the Christian, Catholic, and Jesuit traditions. **Academic majors** serve the same broad goals but in the context of bringing added depth and facility in a particular academic discipline or professional field. **Academic minors and elective courses** foster students' intellectual curiosity and adaptability and encourage in them an enthusiasm for lifelong learning.

More specifically, a bachelor's degree requires:

- a minimum of 128 credit hours, including 48 credit hours in courses numbered 300 or above. An overall cumulative grade point average (GPA) of at least 2.00, based only on courses at Creighton University, is required for graduation;
- completion of all applicable requirements of the Core Curriculum (a minimum of 49 credit hours plus 12-13 credit hours in the Skills area. The requirements in certain skills areas may be met via tests and portfolios. The 128 credit hour graduation requirement is not reduced through these tests or portfolios;
- completion of at least one major in one of the departments of the College. A minimum of 18 credit hours, as specified by the relevant department, is required to complete a major. Students must achieve a GPA of 2.00 in the minimum requirements of their majors in order to graduate.

Elective courses should be chosen with the advice of a student's academic advisor.

Normally, students register for not less than 12 nor more than 18 credit hours in each semester. The privilege of carrying more than 18 hours is contingent upon the student's quality-point average and requires the written approval of the Dean.

### ***Majors and Minors for Business Administration and Nursing Students***

Students in the School of Nursing and the College of Business Administration may complete an additional major or minor in the College of Arts and Sciences. The second major or minor is in addition to the BSN or BSBA degree earned; students **do not** receive a second degree from Arts and Sciences. Nursing students should contact the Associate Dean of Student Affairs in the School of Nursing and business students should contact the Dean of the College of Business Administration for advising and for referral for the application.

### ***Core Curriculum Requirements***

The Core Curriculum course requirements are organized into five categories. Each course in the core meets specific College criteria. Students must complete the designated number of hours for each category in approved courses from the lists on the pages that follow.

#### **CATEGORY A — Theology, Philosophy and Ethics — 18 credits**

- Christianity in Context (Theology) — 3 credits
- Scripture (Theology) — 3 credits
- Christian Theology (Theology) — 3 credits
- God and Persons: Philosophical Reflections (Philosophy) — 3 credits
- Foundations for Ethical Understanding (Philosophy/Theology) — 3 credits
- Senior Perspective (Interdisciplinary) — 3 credits

#### **CATEGORY B — Cultures, Ideas, and Civilizations — 18 credits**

- Critical and Historical Introduction to Philosophy (Philosophy) — 3 credits
- The Modern Western World (History) — 3 credits
- History of Non-Western World (History) — 3 credits
- World Literature I: Pre-1600 (Classical Civilization/English) — 3 credits
- World Literature II: Post-1600 (Classical Civilization/English) — 3 credits
- International/Global Studies (Choice) — 3 credits

#### **CATEGORY C — Natural Science — 7 credits**

- Must be taken from one or more of the following fields (must include one laboratory)
- Atmospheric Sciences/Biology/Computer Science/Chemistry/Environmental Science/Physics

#### **CATEGORY D — Social and Behavioral Sciences — 6 credits**

- Must be taken from two different fields chosen from the following:
- Anthropology/Economics/Native American Studies/Political Science/Psychology/Sociology

#### **CATEGORY E — Skills — 12-15 credits**

- \* College Writing (ENG 150) — 3 credits
- \* Mathematics (MTH 201 or 245) — 3 or 4 credits
- \* Speech (COM 152) or Studio/Performing Arts — 3 credits
- \* Language (Classic or Modern) — Six credits in one language at 100 level if learning it for the first time or 3 hours at 200 level with previous knowledge of that language.
- \* Students may take a test to fulfill this requirement. See note above.

#### **CERTIFIED WRITING COURSES**

Four approved writing intensive courses, which may also fulfill core or major requirements.

## CORE CURRICULUM COURSES

The Core Curriculum courses listed below are approved at the time of this Bulletin printing. Please check with the Dean's Office, with future Bulletins, or with the Registrar's website at <http://www.creighton.edu/Registrar> for additional courses. NOTE: Courses taken as Pass/No Pass basis may not be used to fulfill Core Requirements.

### CORE CATEGORY A — THEOLOGY, PHILOSOPHY, AND ETHICS

*One course chosen from each of the following areas is required.*

#### *Christianity in Context*

**THL 100** Christianity in Context

#### *Scripture*

**THL 201** Reading the Old Testament  
**THL 202** Creation and Apocalypse  
**THL 203** Biblical Ancestors and Heroes  
**THL 205** Sickness, Disability, and Healing in the Bible  
**THL 207** Reading the New Testament  
**THL 208** New Testament Communities and Their Stories  
**THL 209** The Synoptic Gospels: The Life of Jesus  
**THL 210** Applying the Memory of Jesus: Community of John Paul and His Legacy  
**THL 212**

#### *Christian Theology*

**JPS 331** Jesus Christ: Liberator  
**JPS 335** Jesus Christ: Yesterday and Today  
**JPS 341** Ecclesiology in Context: The Church in El Salvador  
**THL 324** Scripture and Theology: The Birth of Christian Doctrine  
**THL 325** Catholicism: Creed and Question  
**THL 326** Defending the Christian Faith  
**THL 330** Jesus Christ and the Salvation of the World  
**THL 331** Jesus Christ: Liberator  
**THL 335** Jesus Christ: Yesterday and Today  
**THL 338** Eucharist: Sacrament of Unity or Disunity  
**THL 339** Theology of the Church and Sacraments  
**THL 341** Ecclesiology in Context: The Church in El Salvador  
**THL 344** Theology of Christian Marriage

#### *Ethics*

**PHL 250** Philosophical Foundations for Ethical Understanding  
**THL 250** Theological Foundations for Ethical Understanding

#### *Philosophy*

**PHL 320** God and Persons: Philosophical Reflections



## Senior Perspective

<b>AMS 426</b>	The West of the Imagination: Art, History and Myth	<b>SRP 416</b>	Biblical Modern World For the Greater Glory: The Jesuits, their History and Spirituality
<b>AMS 482</b>	Race in America: Idea and Reality	<b>SRP 418</b>	Jesus Through the Ages
<b>ANT 409</b>	Race and Gender Relations: Moral and Ethical Dilemmas	<b>SRP 420</b>	Science and Religion
<b>ANT 444</b>	Non-Violence and Peaceful Resolution of Conflict	<b>SRP 422</b>	Children of Poverty
<b>ANT 455</b>	Food, Society and Environment	<b>SRP 425</b>	Myths That We Live By
<b>ART 418</b>	Jesus Through the Ages	<b>SRP 426</b>	The West of the Imagination: Art, History and Myth
<b>ART 428</b>	Film and the Fine Arts	<b>SRP 428</b>	Film and the Fine Arts
<b>BKS 482</b>	Race in America: Idea and Reality	<b>SRP 430</b>	Ethics and Market Reforms in the Post-Communist Countries
<b>CNE 425</b>	Myths That We Live By	<b>SRP 431</b>	Mathematical History, Philosophy, and Ethics
<b>COM 488</b>	Personal and Spiritual Dimensions of Leadership	<b>SRP 434</b>	Philosophy of East Asian Lit. and Film
<b>EDU 488</b>	Personal and Spiritual Dimensions of Leadership	<b>SRP 435</b>	Literature, Philosophy and Economics: Critical Rep. of Commercial Life
<b>ENG 435</b>	Literature, Philosophy and Economics: Critical Rep. of Commercial Life	<b>SRP 436</b>	Politics and Ethics of Science and Technology
<b>ENG 438</b>	Literacy and Community	<b>SRP 437</b>	Environment and Race, Class, and Gender
<b>ENG 439</b>	Literacy and Technology	<b>SRP 438</b>	Literacy and Community
<b>EVS 452</b>	Science, Media and Risk	<b>SRP 439</b>	Literacy and Technology
<b>EVS 455</b>	Food, Society and Environment	<b>SRP 440</b>	Music, Liturgy and the Transformed Life
<b>HAP 457</b>	Biomedical Ethics	<b>SRP 444</b>	Non-Violence and Peaceful Resolution of Conflict
<b>HIS 416</b>	For the Greater Glory: The Jesuits, their History and Spirituality	<b>SRP 448</b>	Freedom and Security in a Digitally-Divided Society
<b>HIS 431</b>	Mathematical History, Philosophy and Ethics	<b>SRP 452</b>	Science, Media and Risk
<b>HIS 482</b>	Race in America: Idea and Reality	<b>SRP 455</b>	Food, Society and Environment
<b>JMC 452</b>	Science, Media and Risk	<b>SRP 457</b>	Biomedical Ethics
<b>JPS 444</b>	Non-Violence and Peaceful Resolution of Conflict	<b>SRP 458</b>	Theology and Vocation to Health Care
<b>MTH 431</b>	Mathematical History, Philosophy and Ethics	<b>SRP 465</b>	Faith and Political Action
<b>MUS 440</b>	Music, Liturgy and the Transformed Life	<b>SRP 468</b>	Christianity and Power
<b>PHL 420</b>	Science and Religion	<b>SRP 469</b>	PSY and THL Approaches to Vocation
<b>PHL 434</b>	Philosophy of East Asian Lit. and Film	<b>SRP 475</b>	Multiculturalism: History, Philosophy, Literature and Education
<b>PHL 435</b>	Literature, Philosophy and Economics: Critical Rep. of Commercial Life	<b>SRP 481</b>	Poverty, Development and Public Policy
<b>PHL 452</b>	Science, Media and Risk	<b>SRP 482</b>	Race in America: Idea and Reality
<b>PHL 457</b>	Biomedical Ethics	<b>SRP 488</b>	Personal and Spiritual Dimensions of Leadership
<b>PHL 475</b>	Multiculturalism: History, Philosophy, Literature and Education	<b>SWK 409</b>	Race and Gender Relations: Moral and Ethical Dilemmas
<b>PHL 482</b>	Race in America: Idea and Reality	<b>SWK 422</b>	Children of Poverty
<b>PLS 430</b>	Ethics and Market Reforms in the Post-Communist Countries	<b>THL 416</b>	For the Greater Glory: The Jesuits, their History and Spirituality
<b>PLS 436</b>	Politics and Ethics of Science and Technology	<b>THL 418</b>	Jesus Through the Ages
<b>PLS 444</b>	Non-Violence and Peaceful Resolution of Violence	<b>THL 420</b>	Science and Religion
<b>PLS 465</b>	Faith and Political Action	<b>THL 440</b>	Music, Liturgy and the Transformed Life
<b>PLS 468</b>	Christianity and Power	<b>THL 457</b>	Biomedical Ethics
<b>PLS 481</b>	Poverty, Development and Public Policy	<b>THL 458</b>	Theology and Vocation to Health Care
<b>PLS 482</b>	Race in America: Idea and Reality	<b>THL 468</b>	Christianity and Power
<b>PSY 469</b>	PSY and THL Approaches to Vocation	<b>THL 469</b>	PSY and THL Approaches to Vocation
<b>SOC 455</b>	Food, Society and Environment	<b>THL 488</b>	Personal and Spiritual Dimensions of Leadership
<b>SRP 401</b>	Science and Uncertainty in a Pluralistic World	<b>THR 428</b>	Film and the Fine Arts
<b>SRP 409</b>	Race and Gender Relations: Moral and Ethical Dilemmas	<b>WGS 409</b>	Race and Gender Relations: Moral and Ethical Dilemmas
<b>SRP 412</b>	Sickness, Disability, and Healing in the		

## CORE CATEGORY B — CULTURES, IDEAS, AND CIVILIZATIONS

*One course chosen from each of the following areas is required.*

### *Philosophy*

**PHL 107** Critical and Historical Introduction to Philosophy

### *Modern Western History*

**HIS 101** The Modern Western World

### *Non-Western History*

**AFS 106** The African World

**ANT 108** The Native American World

**BKS 106** The African World

**HIS 103** The Asian World

**HIS 104** The Latin American World

**HIS 106** The African World

**HIS 107** The Middle Eastern World

**HIS 108** The Native American World

**NAS 108** The Native American World

### *World Literature I*

**CNE 120** World Literature I

**ENG 120** World Literature I

### *World Literature II*

**ENG 121** World Literature II

### *International and Global Studies*

<b>AFS 311</b>	Politics of Africa	<b>ANT 360</b>	Gender, Society and Culture
<b>AFS 342</b>	Peoples and Cultures of Sub-Saharan Africa	<b>ANT 363</b>	Socio-Cultural Construction of Health, Illness and Healing
<b>AFS 347</b>	Peoples and Cultures of Africa and Middle East	<b>ANT 400</b>	Seminar in African Studies (Topic – African Religions only)
<b>AFS 356</b>	Christianity in Africa	<b>ANT 469</b>	Ethnohistorical Approaches to Native American Cultures
<b>AFS 390</b>	Introduction to African Literature	<b>ANT 525</b>	Archaeological Fieldwork and Analysis
<b>AFS 398</b>	Literature of Francophone Africa	<b>ANT 526</b>	Archaeology of Roman Palestine
<b>AFS 400</b>	Seminar in African Studies (Topic – African Religions only)	<b>ART 319</b>	Art International
<b>AFS 405</b>	Ethnicity, Nationalism and Democracy	<b>ART 355</b>	Greek Art and Archaeology
<b>AFS 485</b>	Society and Belief Systems in Africa	<b>ART 386</b>	History and Aesthetics of Latin American Photography
<b>AFS 489</b>	Southern Africa: The Politics of Race	<b>BKS 311</b>	Politics of Africa
<b>AMS 335</b>	Federal Indian Policy and Law	<b>BKS 342</b>	Peoples and Cultures of Sub-Saharan Africa
<b>AMS 365</b>	Issues of the Native American Experience	<b>BKS 347</b>	Peoples and Cultures of Africa and Middle East
<b>AMS 469</b>	Ethnohistorical Approaches to Native American Cultures	<b>BKS 356</b>	Christianity in Africa
<b>ANT 307</b>	Demography: World Population Issues	<b>BKS 390</b>	Introduction to African Literature
<b>ANT 317</b>	Global Health Issues	<b>BKS 398</b>	Literature of Francophone Africa
<b>ANT 324</b>	Native American World View, Cultures and Values	<b>BKS 428</b>	Multicultural Issues in Psychology
<b>ANT 331</b>	Indians of the Great Plains	<b>BKS 485</b>	Society and Belief Systems in Africa
<b>ANT 340</b>	Native American Culture and Health	<b>BKS 489</b>	Southern Africa: The Politics of Race
<b>ANT 342</b>	Peoples and Cultures of Sub-Saharan Africa	<b>CNE 355</b>	Greek Art and Archaeology
<b>ANT 343</b>	Peoples and Cultures of Native North America	<b>CNE 525</b>	Archaeological Fieldwork and Analysis
<b>ANT 346</b>	Peoples and Cultures of Latin America	<b>CNE 526</b>	Archaeology of Roman Palestine
<b>ANT 347</b>	Peoples and Cultures of Africa and Middle East	<b>ECO 408</b>	Current Issues in Social Economics and Political Economy
<b>ANT 348</b>	Peoples and Cultures of Asia	<b>ECO 518</b>	Comparative Economic Systems
<b>ANT 349</b>	Peoples and Cultures of India	<b>ECO 528</b>	International Economic Development
<b>ANT 350</b>	Social Change	<b>EDU 315</b>	World Geography
<b>ANT 352</b>	Witchcraft, Oracles and Magic: Anthropological Study of Religion	<b>EDP 361</b>	Social Justice in the Dominican Republic
<b>ANT 355</b>	Environment and Society: Sociological Perspectives	<b>ENG 353</b>	Intro to Native American Literature
<b>ANT 358</b>	Critical Issues in the Study of Native American Religions	<b>ENG 390</b>	Introduction to African Literature
		<b>ENG 398</b>	Literature of Francophone Africa
		<b>EVS 307</b>	Demography: World Population Issues
		<b>EVS 355</b>	Environment and Society
		<b>GER 525</b>	The New Berlin
		<b>HAP 317</b>	Global Health Issues



<b>HIS 347</b>	The Arab-Israeli Conflict: Struggle for the Holy Land	<b>PLS 319</b>	Politics of Developing Areas
<b>HIS 465</b>	Japanese Popular Culture	<b>PLS 335</b>	Federal Indian Policy and Law
<b>HIS 469</b>	Ethnohistorical Approaches to the Native American Cultures	<b>PLS 340</b>	International Politics
<b>HIS 485</b>	Society and Belief Systems in Africa	<b>PLS 345</b>	International Political Economy
<b>HIS 489</b>	Southern Africa: The Politics of Race	<b>PLS 347</b>	International Regimes
<b>HIS 567</b>	Change and Revolution in the Modern Middle East	<b>PLS 405</b>	Ethnicity, Nationalism and Democracy
<b>JMC 365</b>	International Mass Communications	<b>PLS 415</b>	Government and Politics of People's Republic of China
<b>JPS 361</b>	Social Justice and Service: Applications to the Dominican Republic	<b>PLS 435</b>	Global Poverty and Development
<b>MUS 375</b>	Music of the World's Peoples	<b>PLS 440</b>	Seminar on International Relations
<b>NAS 319</b>	Art International	<b>PLS 472</b>	International Conflict
<b>NAS 324</b>	Native American World View, Cultures and Values	<b>PLS 537</b>	International Law
<b>NAS 331</b>	Indians of the Great Plains	<b>PSY 428</b>	Multicultural Issues in Psychology
<b>NAS 335</b>	Federal Indian Policy and Law	<b>SOC 307</b>	Demography: World Population Issues
<b>NAS 340</b>	Native American Culture and Health	<b>SOC 317</b>	Global Health Issues
<b>NAS 343</b>	Peoples and Cultures of Native North America	<b>SOC 350</b>	Social Change
<b>NAS 346</b>	Peoples and Cultures of Latin America	<b>SOC 355</b>	Env. and Society: Soc. Perspectives
<b>NAS 358</b>	Critical Issues in the Study of Native American Religions	<b>SOC 360</b>	Gender, Society and Culture
<b>NAS 365</b>	Issues of the Native American Experience	<b>SOC 363</b>	Socio-Cultural Construction of Health, Illness and Healing
<b>NAS 469</b>	Ethnohistorical Approaches to Native American Cultures	<b>SWK 335</b>	Federal Indian Policy and Law
<b>PHL 324</b>	Native American World View, Cultures and Values	<b>SWK 365</b>	Issues of the Native American Experience
<b>PHL 351</b>	Introduction to Chinese Philosophy	<b>THL 351</b>	Intro. to Chinese Philosophy
<b>PHL 353</b>	Introduction to Buddhism	<b>THL 352</b>	Witchcraft, Oracles & Magic: Anthropological Studies of Religion
<b>PLS 303</b>	Politics of Russia and the USSR Successor States	<b>THL 353</b>	Introduction to Buddhism
<b>PLS 305</b>	Eastern European Political Systems	<b>THL 354</b>	Introduction to Judaism
<b>PLS 311</b>	Politics of Africa	<b>THL 356</b>	Christianity in Africa
<b>PLS 313</b>	Politics of the Middle East	<b>THL 357</b>	Introduction to Islam
<b>PLS 314</b>	Politics of Post Communist South Eurasia	<b>THL 358</b>	Critical Issues in the Study of Native American Religions
<b>PLS 315</b>	Politics of Asia	<b>THL 359</b>	Living Religions of the World
<b>PLS 317</b>	Latin American Government and Politics	<b>THL 361</b>	Social Justice and Service: Applications to the Dominican Republic
		<b>THL 525</b>	Archaeological Fieldwork and Analysis
		<b>THL 526</b>	Archaeology of Roman Palestine
		<b>THL 574</b>	Faith and Food (When taught in the Sciences)
		<b>WGS 360</b>	Gender, Society and Culture

## CORE CATEGORY C — NATURAL SCIENCES

7 credits — Must be taken from one or more of the following fields (must include one laboratory)

<b>ATS 113</b>	Introduction to Atmospheric Sciences (3)	<b>CHM 216</b>	Natural Sciences II (4)
<b>ATS 114</b>	Introduction to Atmos. Sciences Lab (1)	<b>CHM 285</b>	Honors Chemistry (3)
<b>ATS 210</b>	Surviving on Earth: Geological Hazards and Society (3)	<b>CHM 286</b>	Honors Chemistry Lab (2)
<b>ATS 231</b>	Severe and Unusual Weather (3)	<b>CSC 121</b>	Computers and Scientific Thinking
<b>BIO 141</b>	Charles Darwin: Life and Impact (3)	<b>EVS 113</b>	Introduction to Atmospheric Sciences (3)
<b>BIO 149</b>	Human Biology (3)	<b>EVS 114</b>	Introduction to Atmos. Sciences Lab (1)
<b>BIO 150</b>	Biotechnology and Society (3)	<b>EVS 210</b>	Surviving on Earth, Geological Hazards and Society (3)
<b>BIO 211</b>	General Biology I (4)	<b>PHY 107</b>	Introductory Astronomy (3)
<b>BIO 212</b>	General Biology II (4)	<b>PHY 108</b>	Introductory Astronomy Lab (1)
<b>CHM 105</b>	Introductory Chemistry (3)	<b>PHY 127</b>	Sound and Music (3)
<b>CHM 201</b>	Chemistry of Consumer Products (3)	<b>PHY 137</b>	Light, Color and Lasers (3)
<b>CHM 203</b>	General Chemistry I (3)	<b>PHY 147</b>	Einstein and Modern Physics (3)
<b>CHM 204</b>	General Chemistry I Lab (1)	<b>PHY 187</b>	Introduction to Physics (3)
<b>CHM 205</b>	General Chemistry II (3)	<b>PHY 188</b>	Physics in the Everyday World (1)
<b>CHM 206</b>	General Chemistry II Lab (1)	<b>PHY 211</b>	General Physics I (4)
<b>CHM 215</b>	Natural Sciences I (4)	<b>PHY 212</b>	General Physics II (4)

## CORE CATEGORY D — SOCIAL AND BEHAVIORAL SCIENCES

2 courses - must be taken from two different fields

<b>AMS 121</b>	American Politics and Government
<b>ANT 101</b>	Introduction to Native American Studies: Anthropological Approaches
<b>ANT 111</b>	Human Variation
<b>ECO 203</b>	Introductory Microeconomics
<b>EDU 207</b>	Educational Psychology (Education Majors only)
<b>EDU 210</b>	Child and Adolescent Development (Education Majors only)
<b>NAS 101</b>	Introduction to Native American Studies: Anthropological Approaches
<b>PLS 101</b>	Introduction to Politics
<b>PLS 105</b>	Introduction to World Politics
<b>PLS 121</b>	American Politics and Government
<b>PLS 215</b>	Comparative Political Systems
<b>PSY 111</b>	Introductory Psychology
<b>SOC 101</b>	Self and Society
<b>SOC 223</b>	Social Problems: Values, Issues and Public Policy

## CORE CATEGORY E — SKILLS

*College Writing*

<b>ENG 150</b>	Rhetoric and Composition
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*Mathematics — (one of the following)*

<b>MTH 201</b>	Applied Mathematics
<b>MTH 245</b>	Calculus I

*Speech/Studio/Performing Arts - (three credits chosen from either of the following two areas)*

*Speech*

<b>COM 152</b>	Principles of Communication Competence
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*Studio/Performing Arts*

<b>ART 104</b>	Elementary School Art (Ed. Majors only)	<b>DAN 153</b>	Stagecraft
<b>ART 105</b>	Art Fundamentals	<b>MUS 208</b>	Jazz Ensemble I
<b>ART 153</b>	Sculpture I	<b>MUS 209</b>	Gospel Choir I
<b>ART 211</b>	Introductory Ceramics	<b>MUS 212</b>	University Chorus I
<b>ART 253</b>	Sculpture II	<b>MUS 218</b>	Wind Ensemble I
<b>ART 271</b>	Photography Studio I	<b>MUS 219</b>	Javanese Gamelan
<b>ART 390</b>	Sculptural Glass Casting	<b>MUS 220</b>	University Orchestra I
<b>DAN 101</b>	Introduction to the Dance	<b>MUS 271</b>	Voice Class
<b>DAN 110</b>	Dance Workshop I	<b>MUS 313</b>	Chamber Choir
<b>DAN 111</b>	Dance Workshop II	<b>THR 121</b>	Oral Interpretation of Literature
<b>DAN 121</b>	Basic Modern Dance I	<b>THR 131</b>	Beginning Acting
<b>DAN 131</b>	Classical Ballet Studio, Basic I	<b>THR 153</b>	Stagecraft
		<b>THR 271</b>	Voice Class

*Languages - 6 credit credits in one language area at 100 level if learning it for the first time or 3 credits at 200 level with previous knowledge of that language.*

<b>ARA 101/102</b>	Elementary Modern Arabic I and II	<b>ITA 202</b>	Intermediate Italian II
<b>ARA 115</b>	Elementary Modern Standard Arabic	<b>JPN 101/102</b>	Beginning Japanese I and II
<b>ARA 201</b>	Intermediate Modern Arabic I	<b>JPN 201</b>	Intermediate Japanese I
<b>CHN 101/102</b>	Beginning Chinese I and II	<b>JPN 202</b>	Intermediate Japanese II
<b>FRN 101/102</b>	Beginning French I and II	<b>LAT 101/102</b>	Beginning Latin I and II
<b>FRN 115</b>	Intensive Beginning French	<b>LAT 115</b>	Intensive Beginning Latin
<b>FRN 201</b>	Intermediate French I	<b>LAT 201</b>	Intermediate Latin
<b>FRN 202</b>	Intermediate French I	<b>RUS 101/102</b>	Beginning Russian I and II
<b>GER 101/102</b>	Beginning German I and II	<b>RUS 201</b>	Intermediate Russian I
<b>GER 115</b>	Intensive Beginning German	<b>SPN 101/102</b>	Beginning Spanish I and II
<b>GER 201</b>	Intermediate German I	<b>SPN 113/114</b>	Beginning Spanish for the Medical Professionals I and II
<b>GER 202</b>	Intermediate German II	<b>SPN 115</b>	Intensive Beginning Spanish
<b>GRK 101/102</b>	Beginning Greek I and II	<b>SPN 201</b>	Intermediate Spanish I
<b>GRK 115</b>	Intensive Beginning Greek	<b>SPN 202</b>	Intermediate Spanish II
<b>GRK 201</b>	Intermediate Greek	<b>SPN 213</b>	Intermediate Spanish for the Medical Professionals I
<b>HEB 101/102</b>	Intro to Classical Hebrew I and II		
<b>ITA 101/102</b>	Beginning Italian I and II		
<b>ITA 201</b>	Intermediate Italian I		

## CERTIFIED WRITING COURSES

*Required: Four courses*

<b>AFS 311</b>	Politics of Africa	<b>BIO 549</b>	Environmental Physiology
<b>AFS 356</b>	Christianity in Africa	<b>BIO 551</b>	Current Topics in Microbiology
<b>AFS 390</b>	Introduction to African Literature	<b>BIO 563</b>	Introduction to Neurobiology Lab
<b>AFS 393</b>	African-American Literature	<b>BIO 572</b>	Animal Behavior Laboratory
<b>AFS 398</b>	Literature of Francophone Africa	<b>BKS 311</b>	Politics of Africa
<b>AFS 400</b>	Seminar in African Studies	<b>BKS 356</b>	Christianity in Africa
<b>AFS 405</b>	Ethnicity, Nationalism and Democracy	<b>BKS 390</b>	Introduction to African Literature
<b>AFS 485</b>	Society and Belief Systems in Africa	<b>BKS 393</b>	African-American Literature
<b>AFS 489</b>	Southern Africa: The Politics of Race	<b>BKS 398</b>	Literature of Francophone Africa
<b>AMS 302</b>	American Studies Seminar: The American Character	<b>BKS 482</b>	Race in America: Idea and Reality
<b>AMS 310</b>	Religion in Contemporary American Society	<b>BKS 485</b>	Society and Belief Systems in Africa
<b>AMS 312</b>	Mass Media and Modern Culture	<b>BKS 489</b>	South Africa: The Politics of Race
<b>AMS 339</b>	Public Policy and Poverty in the U.S.	<b>CHM 215</b>	Natural Sciences I
<b>AMS 345</b>	Sports in American Culture	<b>CHM 216</b>	Natural Sciences II
<b>AMS 393</b>	African-American Literature	<b>CHM 342</b>	Physical Chemistry I Laboratory
<b>AMS 406</b>	German Immigrant Culture	<b>CHM 382</b>	Fundamentals of Biochemistry-Lab
<b>AMS 426</b>	The West of the Imagination: Art, History and Myth	<b>CHM 444</b>	Physical Chemistry II
<b>AMS 469</b>	Ethnohistorical Approaches to the Native American Cultures	<b>CHM 497</b>	Directed Independent Research
<b>AMS 482</b>	Race in America	<b>CNE 306</b>	Literature of Ancient Greece
<b>AMS 491</b>	Senior Seminar	<b>CNE 308</b>	Literature of Ancient Rome
<b>ANT 209</b>	Qual. Methods in the Social Sciences	<b>CNE 311</b>	Classical Mythology
<b>ANT 212</b>	Quan. Methods in the Social Sciences	<b>CNE 313</b>	The Hero in Antiquity
<b>ANT 302</b>	American Studies Seminar: The American Character	<b>CNE 349</b>	Egyptian Art and Archaeology
<b>ANT 307</b>	Demography: World Population Issues	<b>CNE 371</b>	History of Hellenistic Philosophy
<b>ANT 345</b>	Sports in American Culture	<b>CNE 420</b>	Selected Topics in Ancient History
<b>ANT 350</b>	Social Change	<b>CNE 520</b>	The Dead Sea Scrolls
<b>ANT 355</b>	Environment and Society: Sociological Perspectives	<b>CNE 524</b>	History of Ancient Israel
<b>ANT 360</b>	Gender, Society and Culture	<b>COM 310</b>	Writing Strategies for the Organization
<b>ANT 362</b>	Applied Anthropology	<b>COM 312</b>	Mass Media & Modern Culture
<b>ANT 363</b>	Socio-Cultural Construction of Health, Illness and Healing	<b>COM 320</b>	Leadership: Theories, Styles & Skills
<b>ANT 400</b>	Topical Seminar in Anthropology (Topic-African Religions only)	<b>COM 321</b>	Persuasion
<b>ANT 444</b>	Non-Violence and Peaceful Resolution of Conflict	<b>COM 361</b>	Interpersonal Communication
<b>ANT 469</b>	Ethnohistorical Approaches to Native American Cultures	<b>COM 380</b>	History and Criticism of Cinema
<b>ART 349</b>	Egyptian Art and Archaeology	<b>COM 390</b>	Health Communication
<b>ART 361</b>	Art of the Renaissance in Europe	<b>COM 440</b>	Gender Communication
<b>ART 369</b>	Modern European Art	<b>COM 461</b>	Adv. Interpersonal Communication
<b>ART 380</b>	History and Criticism of Cinema	<b>COM 463</b>	Organizational Assessment
<b>ART 383</b>	History and Aesthetics of Photography	<b>COM 464</b>	Organizational Training & Development
<b>ART 386</b>	The History and Aesthetics of Latin Amer. Photog.	<b>COM 496</b>	Communication Internships
<b>ART 428</b>	Film and the Fine Arts	<b>COU 390</b>	Residence Hall Advising
<b>ATE 306</b>	Therapeutic Exercise	<b>COU 575</b>	Introduction to Peer Education Student Development Programming
<b>ATE 350</b>	Nutrition for Health and Sports Performance	<b>CSC 444</b>	Human Computer Interaction
<b>ATS 542</b>	Radar Remote Sensing	<b>ECO 408</b>	Current Issues in Social Economics and Political Economy
<b>ATS 574</b>	Stratospheric Dynamics	<b>ECO 528</b>	International Economic Development
<b>BIO 385</b>	Ecology, Geography & Health of Lakes	<b>EDP 361</b>	Social Justice in the DR
<b>BIO 419</b>	Molecular Biology Laboratory	<b>EDU 210</b>	Child and Adolescent Development
<b>BIO 440</b>	Field Biology of the Desert Southwest	<b>EDU 275</b>	Seminar on Peer Education
<b>BIO 481</b>	Terrestrial Ecology	<b>EDU 311</b>	Teaching of Reading
<b>BIO 487</b>	Marine Ecology Laboratory	<b>EDU 320</b>	Leadership: Theories, Styles and Skills
<b>BIO 491</b>	Biological Investigations	<b>EDU 463</b>	Organizational Assessment
<b>BIO 512</b>	Microbial Ecology	<b>EDU 525</b>	Mainstreaming the Mildly/Mod. Handicapped Student
<b>BIO 517</b>	Current Topics in Genetics	<b>EDU 528</b>	Speech and Language Development of the Exceptional Child
<b>BIO 532</b>	Cell Biology	<b>ENG 201</b>	Interpreting Texts
		<b>ENG 202</b>	Entering a Professional Dialogue
		<b>ENG 251</b>	Advanced Composition
		<b>ENG 252</b>	Honors Advanced Composition
		<b>ENG 254</b>	Writing About Literature
		<b>ENG 300</b>	Introduction to Creative Writing
		<b>ENG 301</b>	Creative Writing: Narrative Forms
		<b>ENG 302</b>	Creative Writing: Poetic Forms

## CERTIFIED WRITING COURSES

*Required: Four courses*

<b>ENG 310</b>	Writing Strategies for the Organization	<b>HIS 485</b>	Society and Belief Systems in Africa
<b>ENG 312</b>	Mass Media and Modern Culture	<b>HIS 489</b>	Southern Africa: The Politics of Race
<b>ENG 314</b>	Explorations of the Essay	<b>HIS 500</b>	Senior Seminar in Social Sciences
<b>ENG 315</b>	Technical and Professional Writing	<b>HIS 524</b>	History of Ancient Israel
<b>ENG 317</b>	Composition Theory and Practice	<b>JMC 219</b>	News Reporting and Media Writing
<b>ENG 353</b>	Intro to Native American Literature	<b>JMC 321</b>	Advanced Reporting
<b>ENG 380</b>	History and Criticism of Cinema	<b>JMC 322</b>	Feature Writing
<b>ENG 381</b>	Literature and the Environment	<b>JMC 326</b>	Sportswriting
<b>ENG 390</b>	Introduction to African Literature	<b>JMC 339</b>	Case Studies in Public Relations
<b>ENG 393</b>	African-American Literature	<b>JMC 341</b>	Public Relations Writing
<b>ENG 398</b>	Literature of Francophone Africa	<b>JMC 361</b>	Technical Public Relations Writing
<b>ENG 410</b>	Women in Literature	<b>JMC 433</b>	Advertising Copy Writing
<b>ENG 411</b>	Milton	<b>JMC 438</b>	Media Ethics
<b>ENG 412</b>	Studies in Major Authors	<b>JMC 477</b>	Advanced Newspaper Production
<b>ENG 420</b>	Utopian Literature	<b>JPS 361</b>	Social Justice and Service: Applications to the Dominican Republic
<b>ENG 432</b>	The Irish Renaissance		Non-Violence and Peaceful Resolution of Conflict
<b>ENG 433</b>	The Mobile Heart	<b>JPS 444</b>	Catholic Social Teaching
<b>ENG 438</b>	Literacy and Community		Mathematical History, Phil. and Ethics
<b>ENG 439</b>	Literacy and Technology	<b>JPS 565</b>	Modern Algebra I
<b>ENG 472</b>	Alternative Discourse in the Academy	<b>MTH 431</b>	Analysis I
<b>ENG 476</b>	Writing and Working for Justice	<b>MTH 581</b>	Qual. Methods in the Social Sciences
<b>ENG 481</b>	Senior Seminar II: Special Topics in British Literature	<b>MTH 591</b>	Ethnohistorical Approaches to the Native American Cultures
<b>ENG 482</b>	Senior Seminar III: Special Topics in American Literature	<b>NAS 209</b>	Moral Philosophy
		<b>NAS 469</b>	Introduction to Chinese Philosophy
<b>ENG 483</b>	Senior Seminar IV: Topics in Irish Literature: Yeats and Joyce	<b>PHL 331</b>	Introduction to Buddhism
<b>ENG 484</b>	Senior Seminar V: Special Topics	<b>PHL 351</b>	Bioethics
<b>ENG 499</b>	Senior Project	<b>PHL 353</b>	Social and Political Philosophy
<b>EVS 307</b>	Demography: World Population Issues	<b>PHL 357</b>	History of Hellenistic Philosophy
<b>EVS 333</b>	Environmental Politics and Policy	<b>PHL 358</b>	History of Medieval Philosophy
<b>EVS 355</b>	Environment and Society	<b>PHL 371</b>	History of Modern Philosophy
<b>EVS 385</b>	Ecology, Geography & Health of Lakes	<b>PHL 372</b>	History of 19th-Century Philosophy
<b>EVS 440</b>	Field Biology of the Desert Southwest	<b>PHL 373</b>	Science and Religion
<b>EVS 481</b>	Terrestrial Ecology	<b>PHL 374</b>	Philosophy East Asian Lit. And Film
<b>EVS 487</b>	Marine Ecology Laboratory	<b>PHL 420</b>	Philosophy and Commercial Societies
<b>EVS 512</b>	Microbial Ecology	<b>PHL 434</b>	Biomedical Ethics
<b>EVS 549</b>	Environmental Physiology	<b>PHL 450</b>	The Thought of John Paul II
<b>EVS 572</b>	Animal Behavior Laboratory	<b>PHL 457</b>	Race in America
<b>EXS 350</b>	Nutrition for Health and Sports Performance	<b>PHL 462</b>	Physics in Medicine
		<b>PHY 351</b>	Introduction to Biological Physics
<b>EXS 407</b>	Basic Statistics and Research Design	<b>PHY 353</b>	Physics Seminar
<b>EXS 491</b>	Exercise Leadership and Program Administration	<b>PHY 491</b>	Relativity: The Special and General Theories
<b>GER 317</b>	German Literature and Civilization I	<b>PHY 558</b>	Nuclear Instruments and Methods
<b>GER 318</b>	German Literature and Civilization II	<b>PHY 562</b>	Comparative Political Systems
<b>GER 406</b>	German Immigrant Culture	<b>PLS 215</b>	Western European Political Systems
<b>HAP 212</b>	Quan. Methods in the Social Sciences	<b>PLS 301</b>	Politics of Russia and the USSR
<b>HAP 331</b>	Managing The Public and Non-Profit Sectors	<b>PLS 303</b>	Successor States
<b>HAP 390</b>	Health Communication	<b>PLS 305</b>	Eastern European Political Systems
<b>HAP 457</b>	Biomedical Ethics	<b>PLS 311</b>	Politics of Africa
<b>HIS 300</b>	Historiography	<b>PLS 313</b>	Politics of the Middle East
<b>HIS 302</b>	AMS Seminar: The American Character	<b>PLS 314</b>	Politics of Post-Communist South Eurasia
<b>HIS 349</b>	Egyptian Art and Archaeology		Politics of Asia
<b>HIS 400</b>	Research Methods in History	<b>PLS 315</b>	Latin American Government and Politics
<b>HIS 406</b>	German Immigrant Culture	<b>PLS 317</b>	Politics of the Developing Areas
<b>HIS 416</b>	For the Greater Glory: The Jesuits, their History and Spirituality	<b>PLS 319</b>	Governing Metropolitan Areas
<b>HIS 420</b>	Selected Topics in Ancient History	<b>PLS 326</b>	Managing the Public and Non-profit Sectors
<b>HIS 431</b>	Mathematical History, Phil. and Ethics	<b>PLS 331</b>	Environmental Politics and Policy
<b>HIS 469</b>	Ethnohistorical Approaches to the Native American Cultures	<b>PLS 333</b>	Public Policy and Poverty in the U.S.
<b>HIS 478</b>	Jerusalem in History	<b>PLS 339</b>	Foreign Policy and Diplomacy of Major Powers
<b>HIS 482</b>	Race in America: Idea and Reality	<b>PLS 342</b>	

## CERTIFIED WRITING COURSES

*Required: Four courses*

<b>PLS 345</b>	International Political Economy	<b>SRP 439</b>	Literacy and Technology
<b>PLS 347</b>	International Regimes	<b>SRP 444</b>	Non-Violence and Peaceful Resolution of Conflict
<b>PLS 362</b>	Conservative Political Thought	<b>SRP 448</b>	Freedom and Security in a Digitally-Divided Society
<b>PLS 405</b>	Ethnicity, Nationalism and Democracy	<b>SRP 457</b>	Biomedical Ethics
<b>PLS 420</b>	Seminar: The First Amendment (This Topic Only)	<b>SRP 458</b>	Theology and Vocation to Health Care
<b>PLS 430</b>	Ethics and Market Reforms in the Post-Communist Countries	<b>SRP 465</b>	Faith and Political Action
<b>PLS 435</b>	Global Poverty and Development	<b>SRP 468</b>	Christianity and Power
<b>PLS 436</b>	Politics of Science and Technology	<b>SRP 469</b>	PSY and THL Approaches to Vocation
<b>PLS 438</b>	Contemporary Issues in Civil Liberties	<b>SRP 481</b>	Poverty, Development and Public Policy
<b>PLS 439</b>	Dangerous Words: The First Amendment to the Constitution	<b>SRP 482</b>	Race in America
<b>PLS 444</b>	Non-Violence and Peaceful Resolution of Conflict	<b>SWK 275</b>	Human Behavior and Social Environment
<b>PLS 465</b>	Faith and Political Action	<b>SWK 339</b>	Public Policy and Poverty in the U.S.
<b>PLS 468</b>	Christianity and Power	<b>SWK 401</b>	Social Welfare Policy
<b>PLS 481</b>	Poverty, Development and Public Policy	<b>SWK 422</b>	Children of Poverty
<b>PLS 482</b>	Race in America	<b>THL 349</b>	Egyptian Art and Archaeology
<b>PLS 591</b>	Senior Research Seminar	<b>THL 351</b>	Introduction to Chinese Philosophy
<b>PSY 316</b>	Research Methods and Statistics II Lab	<b>THL 353</b>	Introduction to Buddhism
<b>PSY 353</b>	Industrial Psychology	<b>THL 354</b>	Introduction to Judaism
<b>PSY 363</b>	Psychology and the Law	<b>THL 356</b>	Christianity in Africa
<b>PSY 374</b>	Human Sexuality	<b>THL 357</b>	Introduction to Islam
<b>PSY 423</b>	Tests and Measurements	<b>THL 359</b>	Living Religions of the World
<b>PSY 424</b>	History and Systems of Psychology	<b>THL 361</b>	Social Justice and Service: Applications to the Dominican Republic
<b>PSY 469</b>	PSY and THL Approaches to Vocation	<b>THL 416</b>	For the Greater Glory: The Jesuits, their History and Spirituality
<b>PSY 491</b>	Honors Seminar	<b>THL 420</b>	Science and Religion
<b>SOC 209</b>	Qual. Methods in the Social Sciences	<b>THL 457</b>	Biomedical Ethics
<b>SOC 212</b>	Quan. Methods in the Social Sciences	<b>THL 458</b>	Theology and Vocation to Health Care
<b>SOC 307</b>	Demography: World Population Issues	<b>THL 468</b>	Christianity and Power
<b>SOC 310</b>	Religion and Contemporary Amer. Society	<b>THL 469</b>	PSY and THL Approaches to Vocation
<b>SOC 320</b>	Sociology of Deviant Behavior	<b>THL 492</b>	Senior Seminar for Theology Majors
<b>SOC 321</b>	Sociology of the Criminal Justice System	<b>THL 508</b>	Gospel of Mark
<b>SOC 333</b>	Social Psychology	<b>THL 509</b>	Gospel of Luke and Acts of the Apostles
<b>SOC 350</b>	Social Change	<b>THL 516</b>	The Book of Revelation
<b>SOC 355</b>	Environment and Society: Sociological Perspectives	<b>THL 518</b>	Women and the Bible
<b>SOC 360</b>	Gender, Society and Culture	<b>THL 520</b>	The Dead Sea Scrolls
<b>SOC 363</b>	Socio-Cultural Construction of Health, Illness and Healing	<b>THL 524</b>	History of Ancient Israel
<b>SOC 423</b>	Law and Society	<b>THL 531</b>	Studies in Early Christianity
<b>SOC 440</b>	Gender Communication	<b>THL 534</b>	Introduction to Liberation Theology
<b>SOC 463</b>	Organizational Assessment	<b>THL 538</b>	Seminar in Christian Anthropology
<b>SRP 401</b>	Science and Uncertainty in a Pluralistic World	<b>THL 539</b>	Seminar in Christian Eschatology
<b>SRP 412</b>	Sickness, Disability, and Healing in the Biblical and Modern Worlds	<b>THL 552</b>	Studies in Medieval Christianity
<b>SRP 416</b>	For the Greater Glory: The Jesuits, their History and Spirituality	<b>THL 555</b>	Major Christian Theologian
<b>SRP 420</b>	Science and Religion	<b>THL 561</b>	Finding God in Daily Life: Prayer and Discernment
<b>SRP 422</b>	Children of Poverty	<b>THL 563</b>	Contemporary Moral Problems
<b>SRP 426</b>	The West of the Imagination: Art, History and Myth	<b>THL 565</b>	Catholic Social Teaching
<b>SRP 428</b>	Film and the Fine Arts	<b>THL 568</b>	Women in the Christian Tradition
<b>SRP 430</b>	Ethics and Market Reforms in the Post-Communist Countries	<b>THL 575</b>	Foundations of Christian Spirituality
<b>SRP 431</b>	Mathematical History, Phil. and Ethics	<b>THL 580</b>	Christianity and Modern Humanism
<b>SRP 433</b>	The Mobile Heart	<b>THR 428</b>	Film and the Fine Arts
<b>SRP 434</b>	Philosophy East Asian Lit. And Film	<b>THR 461</b>	American Theatre History
<b>SRP 436</b>	Politics of Science and Technology	<b>THR 465</b>	Theatre History (5th Century, B.C. - 1700)
<b>SRP 437</b>	Environment and Race, Class & Gender	<b>THR 466</b>	World Theatre History (1700-Present)
<b>SRP 438</b>	Literacy and Community	<b>WGS 360</b>	Gender, Society and Culture
		<b>WGS 410</b>	Women in Literature
		<b>WGS 440</b>	Gender Communication
		<b>WGS 518</b>	Women and the Bible

## *Degrees*

The College of Arts and Sciences awards a total of 10 different bachelor's degrees. While the majority of students in each graduating class receive Bachelor of Arts (B.A.) or Bachelor of Science (B.S.) degrees, the College also offers the following programs of study that either provide greater concentration in a specific academic field or serve as a professional credential:

*Bachelor of Fine Arts (B.F.A.)*

*Bachelor of Science in Atmospheric Sciences (B.S. Ats.)*

*Bachelor of Science in Chemistry (B.S.Chm.)*

*Bachelor of Science in Computer Science (B.S.C.S.)*

*Bachelor of Science in Environmental Science (B.S.Evs.)*

*Bachelor of Science in Mathematics (B.S.Mth.)*

*Bachelor of Science in Physics (B.S.Phy.)*

*Bachelor of Social Work (B.S.W.)*

## *Majors*

Students complete most of their advanced work within their majors. Students must achieve a cumulative grade point average of at least 2.00 in the minimum requirements of their majors to qualify for graduation.

To maintain satisfactory progress toward their degrees, students must notify the Dean's Office of their intended majors in writing by the start of their third academic year. Ordinarily, students select their majors during their Sophomore year; however, some students may wish to apply for the major earlier, and may do so after completing their first semester at Creighton.

In order to apply, students submit online at <https://www2.creighton.edu/ccas>. Students must have an overall GPA of 2.00 and have satisfied any specific requirements as indicated by the major department in this bulletin.

Department chairs and program directors may defer or decline students who do not meet the designated criteria. However, at the time of graduation, any student who meets all the published criteria of the University may request the College to award the degree and major regardless of the prior actions of the department. Such requests should be directed to the Senior Associate Dean.

## *Structure of Majors*

The majors offered in the College of Arts and Sciences differ in the ways in which they structure their requirements, as they must if they are to meet the diverse needs of Creighton students and reflect the widely varying natures of their respective academic disciplines.

Some majors focus on a single straightforward sequence of courses with limited opportunities for students to make individual choices. Other programs specify two or more **tracks** - course sequences, one of which a student must select in order to complete the major. Still others list **specializations** - optional, alternative or additional sequences of coursework that students may elect which explore the relevant discipline more deeply or prepare themselves for particular career paths.

## *Degrees, Majors, Tracks and Specializations Offered in the College*

The following list shows all the subjects offered as majors in the College by degree together with the tracks and specializations that each allows. Specific requirements for each program appear in the listing for the relevant department or program in the Courses of Instruction section of this bulletin.

### ***Bachelor of Arts (B.A.)***

American Studies  
Anthropology  
Art: Art History Track  
Art: Studio Art Track  
Classical Languages: Greek Track  
Classical Languages: Latin Track  
Classical and Near Eastern Civilizations  
Communication Studies: Interpersonal Comm. Track  
Communication Studies: Organizational Comm. Track  
    Corporate Communication Specialization  
    Human Resources Administration Specialization  
Economics  
English  
    American Literature Specialization  
    British Literature Specialization  
    Creative Writing Specialization  
    English Education Specialization  
    Irish Literature Specialization  
    Rhetoric and Composition Specialization  
French  
German  
Graphic Design  
History  
    International Relations Specialization  
International Relations  
Journalism: Advertising Track  
Journalism: News Track  
Journalism: Photo Journalism Track  
Journalism: Public Relations Track  
Journalism: Visual Communication Track  
Justice and Society  
Music  
Native American Studies  
Philosophy: History Track  
    Ethics Specialization  
Philosophy: Problems Track  
    Ethics Specialization  
Political Science: Legal Studies Track  
Political Science: Political Science Track  
Political Science: Public Policy Track  
Psychology  
Spanish  
Theatre: Standard Theatre Track  
Theatre: Broadcast Performance & Production Track  
Theology  
    Biblical Studies Specialization  
    Doctrinal, Historical or Liturgical Theology  
    Specialization  
    Christian Life Studies Specialization

### ***Bachelor of Fine Arts (B.F.A.)***

Studio Art  
Graphic Design  
Theatre: Performance Track  
Theatre: Technical Track

### ***Bachelor of Science (B.S.)***

Athletic Training  
Atmospheric Sciences  
Biology  
Chemistry: Generalist Track  
Chemistry: Chemistry Education Track  
Computer Science  
Elementary Education  
    Special Education for the Mildly/Moderately  
    Handicapped K-6 Specialization  
    Special Education for the Mildly/Moderately  
    Handicapped 7-12 Specialization  
    English as a Second Language (K-12) Teaching  
    Endorsement Specialization  
Exercise Science  
Health Administration and Policy  
Mathematics  
Physics  
Sociology: Standard Sociology Track  
Sociology: Applied Research Methods Track  
Sociology: Criminal Justice Policy Track  
Sociology: Family Studies Track  
Sociology: Global Health Studies Track

### ***Bachelor of Science in Atmospheric Sciences (B.S. Ats.)***

Applied Meteorology Track  
Graduate School and Research Preparation Track

### ***Bachelor of Science in Chemistry (B.S.Chm.)***

Chemistry Track  
Biochemistry Track

### ***Bachelor of Science in Computer Science (B.S.C.S.)***

Computer Science

### ***Bachelor of Science in Environmental Sciences (B.S. Evs.)***

Global and Environmental Systems Track  
Environmental Analysis and Pollution Track  
Organismal/Population Ecology Track  
Environmental Policy and Society Track

### ***Bachelor of Science in Mathematics (B.S.Mth.)***

Pure Mathematics Track  
Medical Mathematics Track

### ***Bachelor of Science in Physics (B.S. Phy.)***

Physics

### ***Bachelor of Social Work (B.S.W.)***

Social Work

## *Double Majors*

Students in the College of Arts and Sciences may complete more than one major. Students completing more than one major are responsible for all the normal requirements, including specified requisite courses, for those programs. Students must choose a primary major. The major(s) and one corresponding degree will be inscribed on the diploma. Students in the College of Arts and Sciences do not receive dual degrees. All major programs of study completed are indicated on students' official transcripts.

## *Minors*

Minors offer students the opportunity to develop substantial knowledge in areas outside their majors and achieve the second and third College learning outcomes:

To think critically about information, assumptions, and arguments found in multiple forms of academic and cultural discourse; and

To integrate broad and diverse learning with at least one individually chosen academic discipline or professional field.

Students may not declare a minor until he or she has been accepted into a Major.

Eighteen credits of coursework are required to complete a minor. Students must achieve a cumulative GPA of 2.00 in courses toward the minor. Student may declare a minor online at <https://www2.creighton.edu/ccas>.

African Studies	Film Studies
American Government and Politics	French
Ancient Greek	German
Ancient History	Globalization: Social and Cultural Issues
Anthropology	Health Administration and Policy
Applied Ethics: Philosophical and Theological Approaches	Historical and Systematic Theology
Applied Research Methods in Sociology and Anthropology	History
Art History	History and Philosophy of Science
Asian Studies	History of Philosophy
Atmospheric Sciences	Interactive Web Design
Behavioral and Cognitive Neuropsychology	International Relations
Biblical Studies	Justice and Peace Studies
Biological Physics	Latin
Biology	Legal Studies
Black Studies	Mathematics
Christian Life Studies	Military Science
Classical and Near Eastern Civilizations	Music
Communication Studies	Native American Studies
Comparative Politics	Physics
Computer Science	Political Science
Criminal Justice Policy	Problems of Philosophy
Dance	Public Policy
Ecology/Evolution	Sociology
English	Spanish
Environmental Policy	Studio Art
Environmental Science	Theatre
European Studies	Women's and Gender Studies

## *Associate Degrees*

Associate Degrees at Creighton University are offered through University College. See pages 267 for information.

\*The fact that a required course may be cross-listed in another program of study is irrelevant to this restriction.



# ACADEMIC DEPARTMENTS AND INTERDISCIPLINARY PROGRAMS

## AFRICAN STUDIES

Program Director: James S. Wunsch  
Program Office: Administration Building, Room 430A

**Program Description:** African Studies is an interdisciplinary program drawing from faculty in the departments of History, English, Sociology and Anthropology, Political Science and International Relations and Theology. It attempts to provide students with factual and theoretical material necessary to understand the issues facing contemporary Africa through courses approaching Africa from humanistic, ethnographic, historical, institutional, and policy-oriented perspectives. The program also offers films, social events, symposia and visiting lecturers to go beyond course offerings.

**Web Contact/Information:** Additional information about this program may be found at <http://puffin.creighton.edu/afs>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

### PROGRAM IN AFRICAN STUDIES

*The program offers an African Studies minor. See page 186 for details.*

*For all AFS courses, please refer to page 289.*

## AMERICAN STUDIES

Program Directors: Heather E. Fryer, Tracy N. Leavelle  
Program Office: Administration Building, Room 339

**Program Description:** American Studies is an integrated, interdisciplinary approach to the study of the United States. It incorporates social, economic, political, and cultural perspectives, and, while retaining the views of the traditional disciplines (e.g. history, political science, sociology, literature), it offers a unique vision and method, thereby providing as comprehensive an understanding of the United States as possible.

**Web Contact/Information:** Additional information about this department may be found at <http://puffin.creighton.edu/ams/index.htm>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes: <http://www.creighton.edu/Registrar>.

### PROGRAM IN AMERICAN STUDIES

**Specific Requirements for Admission to the American Studies Major:** Successful completion of AMS 300 Introduction to American Studies

***B. A., Major in American Studies: 30 Credits***

#### *Course Requirements*

#### **(All of the following:)**

AMS 300	Introduction to American Studies	3 credits
AMS 491	Senior Seminar	3 credits

#### **(Two of the following:)**

AMS 301	American Studies Seminar: The American Culture	3 credits
AMS 302	American Studies Seminar: The American Character	3 credits
AMS 303	American Studies Seminar: The American People	3 credits

Additional minimum of 18 credits in a topical area approved by Program Director. 18 credits

### ***Teacher Certification***

Students who think they may teach Social Science or History in secondary schools must consult with the Education Department, with the Director of the American Studies Program, and with the appropriate agency in the state in which they intend to teach.

### ***Certificate Programs in University College***

This program does not offer a certificate program to students in University College.

*For all AMS courses, please refer to page 292.*

# ATMOSPHERIC SCIENCES

Chair: Arthur V. Douglas

Department Office: Hixson-Lied Science Building, Room 504

Professors: A. Douglas;

Assistant Professors: J. Martinelli, J. Schrage.

**Department Description:** The Atmospheric Sciences Major introduces students to a wide range of scientific inquiry relative to the earth's atmosphere. A broad set of courses are offered in weather analysis, forecasting, atmospheric dynamics and numerical weather forecasting. The major is available through two degree options. The first option, the Bachelor of Science (B.S.) degree, requires a set of courses which fulfill employment requirements for the National Weather Service and other branches of the National Oceanic and Atmospheric Administration. The second degree option, the Bachelor of Science in Atmospheric Sciences degree (B.S.Ats.) prepares students for graduate studies and research fields within the Atmospheric Sciences.

**Web Contact/Information:** Additional information about this department may be found at <http://ats.creighton.edu>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

## PROGRAMS IN ATMOSPHERIC SCIENCES

**Specific Requirements for Admission to the Atmospheric Sciences Major:** Successful completion of ATS 113, ATS 114, and MTH 245.

### ***B. S., Major in Atmospheric Sciences: 26 Credits***

#### *Course Requirements*

#### **(All of the following:)**

ATS 113	Introduction to Atmospheric Sciences	3 credits
ATS 114	Introduction to Atmospheric Sciences Laboratory	1 credit
ATS 542	Radar Remote Sensing	3 credits
ATS 555	Meteorological Remote Sensing	3 credits
ATS 561	Synoptic Meteorology I	3 credits
ATS 562	Synoptic Meteorology II	4 credits
ATS 571	Dynamic Meteorology I	3 credits
ATS 572	Dynamic Meteorology II	3 credits

One additional course chosen in consultation with the department chair. 3 credits

ATS 497 Directed Independent Research is highly recommended and is normally taken for a total of 3 credits during the student's Senior year, during which the student will develop a written report.

**Requisite Courses:** MTH 245 and MTH 246, PHY 211 and PHY 212 are required. Additional courses in one or more of the following fields are highly recommended: Computer Science, Chemistry, Mathematics, Statistics or Environmental Sciences.

## ***B.S. Ats., Major in Atmospheric Sciences: 35-36 Credits***

### *Course Requirements*

*The following ATS courses are required for both tracks. In addition, the students must chose one track.*

#### **(All of the following:)**

ATS 113	Introduction to Atmospheric Sciences	3 credits
ATS 114	Introduction to Atmospheric Sciences Laboratory	1 credit
ATS 542	Radar Remote Sensing	3 credits
ATS 555	Meteorological Remote Sensing	3 credits
ATS 561	Synoptic Meteorology I	3 credits
ATS 562	Synoptic Meteorology II	4 credits
ATS 571	Dynamic Meteorology I	3 credits
ATS 572	Dynamic Meteorology II	3 credits

### ***Applied Meteorology Track***

#### **(Four of the following:)**

ATS 443	Environmental Geology	4 credits
ATS 533	Physical Climatology and Climate Change	3 credits
ATS 541	Atmospheric Diffusion, Air Pollution, and Environmental Impact Analysis	3 credits
ATS 544	Hydrology	3 credits
ATS 545	Mesoscale Analysis	3 credits
ATS 553	Tropical Meteorology	3 credits
ATS 564	Statistical Applications in the Atmospheric Sciences	3 credits

### ***Graduate School and Research Preparation Track***

#### **(Two of the following:)**

ATS 315	Computer Applications in Meteorology	3 credits
ATS 545	Mesoscale Analysis	3 credits
ATS 552	Boundary Layer Meteorology	3 credits
ATS 573	Cloud Physics and Dynamics	3 credits

#### **(Two of the following:)**

ATS 531	Operational Prediction Models	3 credits
ATS 533	Physical Climatology and Climate Change	3 credits
ATS 553	Tropical Meteorology	3 credits
ATS 556	Introduction to Physical Oceanography	3 credits
ATS 564	Statistical Applications in the Atmospheric Sciences	3 credits

**Requisite Courses:** MTH 245 and MTH 246, PHY 211 and PHY 212, and 3 credits in CSC or ATS 315. All students expecting to attend graduate school or considering future employment with the NOAA/National Weather Service need to take MTH 347 and MTH 545. A meteorology course stressing physical meteorology, such as ATS 541, ATS 552, or ATS 573 is required for students anticipating potential employment with the National Weather Service.

*The program offers an Atmospheric Science minor. See page 192 for details.*

## ***Certificate Program in University College***

This department offers one certificate program in Atmospheric Sciences to students in University College. See the description for this certificate on page 271 in the University College section of the Bulletin.

***For all ATS courses, please refer to page 309.***

# BIOLOGY

Chair: Mary Ann Vinton

Department Office: Hixson-Lied Science Building, Room 448

Professors: T. Burk, H., J. Platz, J. Schalles; Professor Emeriti: C. Curtin, R. Belknap, A. Schlesinger;

Associate Professor: M. Vinton; Associate Professor Emerita: J. Roberts;

Assistant Professors: C. Austerberry, C. Brockhouse, A. Cullum, M. Reedy, A. Shibata, K. van Dijk.

**Department Description:** The Creighton Biology Department offers foundational and advanced courses across major subdisciplines of biology. Lecture and lab experiences are grounded in first principles. Modern facilities, faculty active in research and a commitment to mentoring students all contribute to a rich environment for developing a sound foundation in life science and opportunities to participate in original research.

**Web Contact/Information:** Additional information about this department may be found at <http://biology.creighton.edu/>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

## PROGRAMS IN BIOLOGY

**Specific Requirements for Admission to the Biology Major:** Completion of a BIO course at 200-level or above with a grade of "C" or higher.

### ***B. S., Major in Biology: 33 Credits***

#### *Course Requirements*

#### **(All of the following:)**

BIO 211 General Biology: Molecular And Cellular 4 credits

BIO 212 General Biology: Organismal And Population 4 credits

#### **(Twenty-five additional upper-division BIO credits from the list below:)**

*This upper-division coursework must include the following:*

#### **Seven lecture courses (3 credits or 4 credits)**

*A minimum of four lecture courses from the 300 and/or 400 levels, and two lecture courses from the 500 level. At least one of these seven lecture courses must come from each of three areas: 1. Cellular/Molecular, 2. Organismal, 3. Population/ Ecology/ Evolution. These areas are designated as "Cell," "Org," and "Pop," respectively, in the third column of the course list below.*

#### **Four laboratory courses**

*This requirement may be satisfied by any combination of 4 credit lecture+laboratory or 1 or 2 credit laboratory only courses. These courses are designated by "Lab" in the course list below. Lecture+laboratory courses may apply simultaneously to both the lecture and laboratory requirements.*

BIO 317	Genetics	Cell	3 credits
BIO 318	Genetics Laboratory	Lab	1 credit
BIO 333	Vertebrate Comparative Anatomy	Lab, Org	4 credits
BIO 335	Zoology	Lab, Org	4 credits
BIO 341	General Botany	Lab, Org	4 credits
BIO 351	Microbiology	Lab, Cell	4 credits
BIO 362	Cell Structure and Function	Cell	3 credits
BIO 385	Ecology, Geography and Health of Lakes	Lab, Pop	4 credits
BIO 390	Environmental Science	Pop	3 credits
BIO 401	Biometry	Lab	4 credits
BIO 417	Molecular Biology	Cell	3 credits
BIO 419	Molecular Biology Laboratory	Lab	2 credits
BIO 432	Introduction to Immunology	Cell	3 credits
BIO 435	Field Biology in the Southeastern U.S.	Lab, Pop	4 credits
BIO 440	Field Biology of the Desert Southwest	Lab, Pop	4 credits
BIO 449	Animal Physiology	Org	3 credits
BIO 450	Animal Physiology Laboratory	Lab	1 credit
BIO 455	Biology of the Protists	Lab, Cell	4 credits
BIO 467	Developmental Biology (Embryology)	Lab, Org	4 credits

BIO 481	Terrestrial Ecology	Lab, Pop	4 credits
BIO 483	Vertebrate Natural History Lecture	Pop	3 credits
BIO 484	Vertebrate Natural History Laboratory	Lab	1 credit
BIO 485	Marine and Freshwater Ecology	Pop	3 credits
BIO 486	Freshwater Ecology Laboratory	Lab	1 credit
BIO 487	Marine Ecology Laboratory	Lab	2 credits
BIO 512	Microbial Ecology	Pop	3 credits
BIO 513	Microbial Ecology Laboratory	Lab	1 credit
BIO 517	Current Topics in Genetics	Cell	3 credits
BIO 523	Environmental Toxicology	Pop	3 credits
BIO 532	Cell Biology: Regulatory Mechanisms	Cell	3 credits
BIO 549	Environmental Physiology	Org	3 credits
BIO 551	Current Topics in Microbiology	Cell	3 credits
BIO 561	Entomology	Lab, Pop	4 credits
BIO 562	Introduction to Neurobiology	Cell, Org	3 credits
BIO 563	Introduction to Neurobiology Laboratory	Lab	2 credits
BIO 567	Cellular and Developmental Neuroscience	Cell	3 credits
BIO 571	Animal Behavior	Org	3 credits
BIO 572	Animal Behavior Laboratory	Lab	2 credits
BIO 581	Evolution	Lab, Pop	4 credits

BIO 490, 493, 495 and 497 do not apply toward the major requirements.

Upon petition prior to enrollment, courses in departments other than Biology (such as CHM 381 or BMS 521) may be approved for non-laboratory biology major credit; a student may exercise this option for only one such course.

**Requisite Courses:** Twenty-four credits in the following courses: CHM 203, 204, 205 (or 285), 206 (or 286), 321, 322, 323, 324, PHY 211, 212.

*The program offers a Biology minor and an Ecology/Evolution minor. See the Minor section of this Bulletin for details, pages 186-217.*

### ***Teacher Certification***

Students plan to teach Biology in secondary schools should consult with the Education Department, with the Biology Department, and with the appropriate agency in the state in which they intend to teach. PHY 187 and either ATS 113 and 114, EVS 443 or PHY 107 and 108 should be substituted for PHY 211 and 212 as supporting courses.

### ***Certificate Programs in University College***

This department does not offer a certificate program to students in University College.

***For all BIO courses, please refer to page 313.***

## ***BLACK STUDIES***

Program Director: A.W. Welch  
Program Office: Administration Building, Room 341

**Program Description:** The Black Studies Program offers a program to undergraduate students in all disciplines who are especially interested in Africa and the African Diaspora, especially in the United States. The Program is designed to allow students to investigate more widely areas in the Humanities and Social Sciences connected to their major or track or to further their special interest. Independent studies and independent research are available to advanced students.

**Web Contact/Information:** For definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

### ***PROGRAM IN BLACK STUDIES***

*The program offers a Black Studies minor. See page 194 for details.*

***For all BKS courses, please refer to page 313.***

# CHEMISTRY

Chair: HollyAnn Harris

Department Office: Hixson-Lied Science Building, Room 268

Professors: M. Hulce, B. Mattson;

Associate Professors: D. Dobberpuhl, H. Harris, F. Klein, G. Michels, R. Snipp, J. Soukup;

Associate Professor Emeritus: Zebolsky;

Assistant Professors: M. Anderson, J. Fletcher, M. Freitag, E. Gross, S. Gross.

**Department Description:** The Chemistry Department at Creighton University is certified by the American Chemical Society (ACS) and offers four degree choices: an ACS-certified major with tracks in Chemistry or Biochemistry, a comprehensive (but not certified) major, and a major designed for students who are interested in teaching high school chemistry.

**Web Contact/Information:** Additional information about this department may be found at <http://chemistry.creighton.edu>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

## PROGRAMS IN CHEMISTRY

**Specific Requirements for Admission to the Chemistry Major:** Satisfactory completion of CHM 203 and 204, and either CHM 205 and CHM 206 or CHM 285 and CHM 286. Computer literacy is expected of students majoring in Chemistry. MTH 245 and MTH 246 and PHY 211 and PHY 212 are prerequisites for all courses beyond organic chemistry.

### ***B.S., Major in Chemistry: 20-30 Credits***

#### *Generalist Track*

##### **(All of the following):**

CHM 315	Quantitative Analysis	4 credits
	-(waived for students who have completed CHM 285/6)	
CHM 321	Organic Chemistry I	3 credits
CHM 322	Organic Chemistry Laboratory I	1 credit
CHM 323	Organic Chemistry Lecture II	3 credits
CHM 324	Organic Chemistry Laboratory II	1 credit
CHM 341	Physical Chemistry I	3 credits
CHM 342	Physical Chemistry I Laboratory	2 credits
CHM 456	Instrumental Analysis	3 credits
CHM 466	Instrumental Analysis Laboratory	2 credits
CHM 532	Mathematical Concepts in Chemistry	3 credits

##### **(Five additional credit hours, three of which must be chosen from the following list):**

CHM 381	Fundamentals of Biochemistry	3 credits
CHM 421	Selected Topics in Organic Chemistry	3 credits
CHM 445	Chemical Thermodynamics	2 credits
CHM 446	Statistical Mechanics	2 credits
CHM 447	Physical Chemistry of Macromolecules	2 credits
CHM 448	Group Theory	2 credits
CHM 451	Inorganic Chemistry I	3 credits
CHM 470	Chemical Literature	1 credit
CHM 502	Inorganic Chemistry II	3 credits
CHM 506	Environmental Chemistry and Natural Resources	3 credits
CHM 521	Advanced Organic Chemistry: Synthetic Org. Methods	3 credits
CHM 523	Bioorganic Chemistry	3 credits
CHM 525	Organic Spectroscopic Analysis	3 credits
CHM 527	Polymer Chemistry	3 credits
CHM 543	Selected Topics in Physical Chemistry	3 credits
CHM 544	Quantum Chemistry	2 credits
CHM 545	Advanced Kinetics	2 credits
CHM 575	Nucleic Acid Biochemistry	3 credits

**(The remaining two credit hours must be chosen from the following list:)**

CHM 351	Descriptive Inorganic Chemistry	2 credits
CHM 382	Biochemistry Laboratory	2 credits
CHM 548	Chemical Applications of Spectroscopy	2 credits
CHM 549	Computational Chemistry	2 credits

### *Chemistry Education Track*

**(All of the following:)**

CHM 315	Quantitative Analysis	
	-(waived for students who have completed CHM 285/6)	4 credits
CHM 321	Organic Chemistry I	3 credits
CHM 322	Organic Chemistry Laboratory I	1 credit
CHM 323	Organic Chemistry Lecture II	3 credits
CHM 324	Organic Chemistry Laboratory II	1 credit
CHM 341	Physical Chemistry I	3 credits
CHM 342	Physical Chemistry I Laboratory	2 credits
CHM 532	Mathematical Concepts in Chemistry	3 credits

**Requisite courses:** MTH 245 and MTH 246 are prerequisites for all chemistry courses beyond CHM 324. PHY 211 and PHY 212 are prerequisites for CHM 341. In addition, BIO 211, ATS/EVS 113 and 114 or ATS/EVS 443 are required and students must complete the requirements for a secondary teaching endorsement. Please consult the Education Department for the most recent list of required courses.

### ***B.S. Chm., Major in Chemistry (Professional Degree): 38-42 Credits***

#### *Chemistry Track*

##### *Course Requirements*

**(All of the following:)**

CHM 315	Quantitative Analysis	4 credits
	-(waived for students who have completed CHM 285/6)	
CHM 321	Organic Chemistry I	3 credits
CHM 322	Organic Chemistry Laboratory I	1 credit
CHM 323	Organic Chemistry Lecture II	3 credits
CHM 324	Organic Chemistry Laboratory II	1 credit
CHM 341	Physical Chemistry I	3 credits
CHM 342	Physical Chemistry I Laboratory	2 credits
CHM 381	Fundamentals of Biochemistry	3 credits
CHM 451	Inorganic Chemistry I	3 credits
CHM 456	Instrumental Analysis	3 credits
CHM 466	Instrumental Analysis Laboratory	2 credits

**(Combined total of 3 credits from:)**

CHM 496	Directed Independent Research I	1-2 credit(s)
CHM 497	Directed Independent Research II	1-2 credit(s)

**(One of the following:)**

CHM 532	Mathematical Concepts in Chemistry	3 credits
MTH 545	Differential Equations	3 credits

*And*

MTH 529	Linear Algebra	3 credits
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Two additional courses, one of which must be a laboratory-based course as follows:

**(One of the courses must be taken from the following:)**

CHM 445	Chemical Thermodynamics	2 credits
CHM 446	Statistical Mechanics	2 credits
CHM 447	Physical Chemistry of Macromolecules	2 credits
CHM 448	Group Theory	2 credits
CHM 544	Quantum Chemistry	2 credits
CHM 545	Advanced Kinetics	2 credits
CHM 548	Chemical Applications of Spectroscopy	2 credits
CHM 549	Computational Chemistry	2 credits

**(The second course may be chosen from the list above or from the following:)**

CHM 351	Descriptive Inorganic Chemistry	2 credits
CHM 382	Biochemistry Laboratory	2 credits
CHM 502	Inorganic Chemistry II	3 credits
CHM 521	Advanced Organic Chem: Synthetic Organic Methods	3 credits
CHM 523	Bioorganic Chemistry	3 credits
CHM 525	Organic Spectroscopic Analysis	3 credits
CHM 527	Polymer Chemistry	3 credits
CHM 575	Nucleic Acid Biochemistry	3 credits

### *Biochemistry Track*

#### *Course Requirements*

**(All of the following:)**

CHM 315	Quantitative Analysis	4 credits
	-(waived for students who have completed CHM 285/6)	
CHM 321	Organic Chemistry I	3 credits
CHM 322	Organic Chemistry Laboratory I	1 credit
CHM 323	Organic Chemistry Lecture II	3 credits
CHM 324	Organic Chemistry Laboratory II	1 credit
CHM 341	Physical Chemistry I	3 credits
CHM 342	Physical Chemistry I Laboratory	2 credits
CHM 381	Fundamentals of Biochemistry	3 credits
CHM 382	Biochemistry Laboratory	2 credits
CHM 451	Inorganic Chemistry I	3 credits
CHM 456	Instrumental Analysis	3 credits
CHM 466	Instrumental Analysis Laboratory	2 credits

**(Combined total of 3 credits from:)**

CHM 496	Directed Independent Research I	1-2 credit(s)
CHM 497	Directed Independent Research II	1-2 credit(s)

**(One of the following:)**

CHM 532	Mathematical Concepts in Chemistry	3 credits
MTH 545	Differential Equations	3 credits

*And*

MTH 529	Linear Algebra	3 credits
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**(One of the following:)**

CHM 523	Bioorganic Chemistry	3 credits
CHM 575	Nucleic Acid Biochemistry	3 credits
PHY 353	Introduction to Biological Physics	3 credits

**(One of the following:)**

BIO 317	Genetics	3 credits
BIO 362	Cell Structure and Function	3 credits
BIO 417	Molecular Biology	3 credits
BIO 532	Cell Biology: Regulatory Mechanisms	3 credits

**Requisite courses:** MTH 245 and MTH 246 are prerequisites for all chemistry courses beyond CHM 324. PHY 211 and PHY 212 are prerequisites for CHM 341. BIO 211 and BIO 212 are prerequisites for the advanced biology courses.

### ***Teacher Certification***

Students who think they may teach Chemistry in secondary schools must consult with the Education Department, with the Chemistry Department and with the appropriate agency in the state in which they intend to teach.

### ***Certificate Programs in University College***

This department does not offer a certificate program to students in University College.

***For all CHM courses, please refer to page 322.***



# CLASSICAL AND NEAR EASTERN STUDIES

Chair: Leonard J. Greenspoon

Department Office: Humanities Center, Room 216

Professors: L. Greenspoon, W. Stephens (secondary appointment);

Associate Professors: G. Bakewell, G. Bucher, J. Hause (secondary appointment), M. Habash,

R. Simkins (secondary appointment), K. Thomas;

Assistant Professors: C. Clark.

**Department Description:** The Department of Classical and Near Eastern Studies develops diverse perspectives and understandings through the study of ancient languages (Greek, Latin, Arabic, and Hebrew), literatures, and cultures. This study yields analytical, critical and creative insights as students encounter and respond to written works and material culture of Greece, Rome, and the Near East.

**Web Contact/Information:** Additional information about this department may be found at <http://puffin.creighton.edu/clc/index.htm>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

## PROGRAMS IN CLASSICAL AND NEAR EASTERN CIVILIZATIONS

**Specific Requirements for Admission to Classical Languages Major:** Satisfactory completion of the 101-102-201 sequence (or equivalent) in the track-language.

### *B. A., Major in Classical Languages: 27 Credits*

#### *Greek Track*

**(All of the following:)**

GRK 300	Introduction to the Ancient Mediterranean World	3 credits
GRK 303	Greek Prose Composition	3 credits
GRK 498	Senior Capstone Seminar	3 credits

**(Nine credits from the following):\***

GRK 301	Readings in Greek	3 credits
GRK 400	Archaic Greek Authors	3 credits
GRK 401	Archaic Greek Themes and Genres	3 credits
GRK 402	Classical Greek Authors	3 credits
GRK 403	Classical Greek Themes and Genres	3 credits
GRK 404	Post-classical Greek Authors	3 credits
GRK 405	Post-classical Greek Themes and Genres	3 credits
GRK 406	Late/koine Greek Authors	3 credits
GRK 407	Late/koine Greek Themes and Genres	3 credits
GRK 408	Byzantine Greek Authors	3 credits
GRK 409	Byzantine Greek Themes and Genres	3 credits
GRK 410	Diachronic Readings in Greek	3 credits
GRK 411	Readings in Greek and Latin	3 credits
GRK 493	Directed Independent Readings	2-4 credits

**(Nine credits from the following:)**

LAT 101	Beginning Latin I	3 credits
LAT 102	Beginning Latin II	3 credits
LAT 115	Intensive Beginning Latin	3 credits
LAT 201	Intermediate Latin	3 credits
LAT 301	Readings in Latin	3 credits
LAT 303	Latin Prose Composition	3 credits
LAT 400	Archaic Latin Authors	3 credits
LAT 401	Archaic Latin Themes and Genres	3 credits
LAT 402	Classical Latin Authors	3 credits
LAT 403	Classical Latin Themes and Genres	3 credits
LAT 404	Augustan Latin Authors	3 credits
LAT 405	Augustan Latin Themes and Genres	3 credits
LAT 406	Post-Augustan/late Latin Authors	3 credits
LAT 407	Post-Augustan/late Latin Themes and Genres	3 credits

LAT 408	Medieval Latin Authors	3 credits
LAT 409	Medieval Latin Themes and Genres	3 credits
LAT 410	Diachronic Readings in Latin	3 credits
LAT 411	Readings in Greek and Latin	3 credits
LAT 493	Directed Independent Readings	2-4 credits

\*Three different courses must be used. Repeating these courses will not fulfill the requirement.

Note: Students pursuing the Greek Track may not minor in Latin.

### *Latin Track*

#### **(All of the following:)**

LAT 300	Introduction to the Ancient Mediterranean World	3 credits
LAT 303	Latin Prose Composition	3 credits
LAT 498	Senior Seminar	3 credits

#### **(Nine credits from the following):\***

LAT 301	Readings in Latin	3 credits
LAT 400	Archaic Latin Authors	3 credits
LAT 401	Archaic Latin Themes and Genres	3 credits
LAT 402	Classical Latin Authors	3 credits
LAT 403	Classical Latin Themes and Genres	3 credits
LAT 404	Augustan Latin Authors	3 credits
LAT 405	Augustan Latin Themes and Genres	3 credits
LAT 406	Post-Augustan/late Latin Authors	3 credits
LAT 407	Post-Augustan/late Latin Themes and Genres	3 credits
LAT 408	Medieval Latin Authors	3 credits
LAT 409	Medieval Latin Themes and Genres	3 credits
LAT 410	Diachronic Readings in Latin	3 credits
LAT 411	Readings in Greek and Latin	3 credits
LAT 493	Directed Independent Readings	2-4 credits

#### **(Nine credits from the following:)**

GRK 101	Beginning Greek I	3 credits
GRK 102	Beginning Greek II	3 credits
GRK 115	Intensive Beginning Greek	3 credits
GRK 201	Intermediate Greek	3 credits
GRK 301	Readings in Greek	3 credits
GRK 303	Greek Prose Composition	3 credits
GRK 400	Archaic Greek Authors	3 credits
GRK 401	Archaic Greek Themes and Genres	3 credits
GRK 402	Classical Greek Authors	3 credits
GRK 403	Classical Greek Themes and Genres	3 credits
GRK 404	Post-classical Greek Authors	3 credits
GRK 405	Post-classical Greek Themes and Genres	3 credits
GRK 406	Late/koine Greek Authors	3 credits
GRK 407	Late/koine Greek Themes and Genres	3 credits
GRK 408	Byzantine Greek Authors	3 credits
GRK 409	Byzantine Greek Themes and Genres	3 credits
GRK 410	Diachronic readings in Greek	3 credits
GRK 411	Readings in Greek and Latin	3 credits
GRK 493	Directed Independent Readings	2-4 credits

\*Three different courses must be used. Repeating these courses will not fulfill the requirement.

Note: Students pursuing the Latin Track may not minor in Ancient Greek.

*The program offers an Ancient History minor, a Classical and Near Eastern Civilizations minor, an Ancient Greek minor, and a Latin minor. See the Minor section of this Bulletin for details, pages 186-217.*

## ***B. A., Major in Classical and Near Eastern Civilizations: 30 Credits***

### *Course Requirements*

**Three credits from each of the following four areas\*:**

#### *Literature*

CNE 306	Literature of Ancient Greece	3 credits
CNE 308	Literature of Ancient Rome	3 credits
CNE 311	Classical Mythology	3 credits
CNE 313	The Hero in Antiquity	3 credits
CNE 321	Epic Literature	3 credits
CNE 323	Classical Greek Drama	3 credits
CNE 421	Roman Social Satire	3 credits
CNE 423	Greek and Roman Comedy	3 credits
CNE 440	Selected Topics in Classical Literature	3 credits
CNE 520	The Dead Sea Scrolls	3 credits
CNE 529	Translations of the Bible	3 credits

#### *History*

CNE 316	Women in Ancient Greece and Hellenistic Egypt	3 credits
CNE 348	Muhammad and the Rise of Islam	3 credits
CNE 401	Greek History to the Peloponnesian War	3 credits
CNE 403	The Roman Republic	3 credits
CNE 404	The Roman Empire	3 credits
CNE 420	Selected Topics in Ancient History	3 credits
CNE 524	History of Ancient Israel	3 credits

#### *Philosophy*

CNE 370	History of Classical Greek Philosophy	3 credits
CNE 371	History of Hellenistic Philosophy	3 credits
CNE 410	Stoicism	3 credits
CNE 460	Selected Topics in Ancient Philosophy	3 credits

#### *Art/Archaeology*

CNE 349	Egyptian Art and Archaeology	3 credits
CNE 350	Archaeology of Syria-Palestine	3 credits
CNE 354	Greek Art and Archaeology (campus)	3 credits
CNE 355	Greek Art and Archaeology (travel)	3 credits
CNE 356	Greeks and Romans in the Bay of Naples	3 credits
CNE 357	Ancient Near Eastern Art and Archaeology	3 credits
CNE 362	Early Christians Art and Archaeology	3 credits
CNE 365	Greek Art	3 credits
CNE 366	Etruscan and Roman Art	3 credits
CNE 430	Selected Topics in Ancient Art and Archaeology	3 credits
CNE 461	The City of Rome	3 credits
CNE 525	Archaeological Fieldwork and Analysis	3 credits
CNE 526	Archaeology of Roman Palestine	3 credits

An additional 18 upper-division credits chosen in consultation with the major advisor.

18 credits

\*Or one or more upper-division courses chosen with the approval of the major advisor.

With the consent of the Chair, as many as 3 related courses from other departments may be accepted toward this major.

The student must complete 3 semesters of one of the ancient languages, or demonstrate the equivalent ability.

## ***Certificate Programs in University College***

This department does not offer a certificate program in Classical and Near Eastern Civilizations to students in University College.

***For all CNE courses, please refer to page 327.***

***For all GRK courses, please refer to page 374.***

***For all LAT courses, please refer to page 395.***

## ***COMMUNICATION STUDIES***

Chair: Erika Kirby

Department Office: Hitchcock Communication Arts Building, Room 307

Associate Professors: M. Danielson, E. Kirby, D. Pawlowski;

Assistant Professors: M. Birkholt, K. Hatfield, C. McBride, S. Shuler.

Instructor: J. Leighter,

**Department Description:** As a discipline, Communication Studies seeks to further communication competencies through theoretical grounding and practical applications of that knowledge. Communication is examined in a variety of contexts, including interpersonal relationships, families, small groups, organizations, media and popular culture, between cultures and in the public sphere. Communication is examined through many perspectives, including quantitative, qualitative, and rhetorical studies.

**Web Contact/Information:** Additional information about this department may be found at <http://www.creighton.edu/CommunicationStudies>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

### ***PROGRAMS IN COMMUNICATION STUDIES***

**Specific Requirements for Admission to the Communication Studies Major:** COM 152 and overall GPA of 2.25.

#### ***B. A., Major in Communication Studies: 36-39 Credits***

*The following Communication Studies courses are required for both tracks. In addition the student must choose one track.*

##### **(All of the following:)**

COM 202	Communication Theories	3 credits
COM 203	Introduction to Communication Research Methods	3 credits
COM 352	Advanced Presentational Forms	3 credits
COM 362	Small Group Communication	3 credits
COM 490	Communication and Community	3 credits
COM 496	Communication Internships	3 credits

##### ***Interpersonal Communication Track***

##### **(All of the following:)**

COM 321	Persuasion	3 credits
COM 361	Interpersonal Communication	3 credits
COM 440	Gender Communication	3 credits
COM 461	Advanced Interpersonal Communication	3 credits
Six (6) Elective hours of Upper-Division COM courses		6 credits

##### ***Organizational Communication Track***

##### **(All of the following:)**

COM 320	Leadership: Theories, Styles, and Skills	3 credits
COM 360	Organizational Communication Theories	3 credits
COM 460	Advanced Organizational Communication	3 credits
COM 463	Organizational Assessment	3 credits
Six (6) Elective hours of Upper-Division COM courses		6 credits

### *Corporate Communication Specialization*

As an alternative to the six elective credits of upper-division COM courses, students may specialize in this area by taking 9 credits as follows:

**(All of the following:)**

COM 321	Persuasion	3 credits
JMC 323	Public Relations	3 credits

**(One of the following:)**

*Computer-mediated communication courses*

JMC 325	Digital Video Photography	3 credits
JMC 379	Print Design	3 credits
JMC 381	Computer Illustration	3 credits
JMC 382	Web Design	3 credits
JMC 423	Interactive Multimedia Design	3 credits

### *Human Resources Administration Specialization*

As an alternative to the six elective credits of upper-division COM courses, students may specialize in this area by taking 6 credits as follows:

**(All of the following:)**

COM 370	Human Resource Administration	3 credits
COM 464	Organizational Training and Development	3 credits

*The program offers a Communication Studies minor. See page 196 for details.*

### ***Certificate Programs in University College***

This department offers four certificate programs to students in University College: *Corporate Communication*, *Human Resource Administration*, *Interpersonal Communication*, and *Organizational Communication*. See the descriptions for these certificates on page 270-279 in the University College section of the Bulletin.

***For all COM courses, please refer to page 331.***



# COMPUTER SCIENCE

Chair: David Reed  
Department Office: Old Gym, Room 209

Professors: D. Malik (secondary appointment), P. Nair;  
Associate Professors: J. Carlson (secondary appointment), D. Reed, M. Wierman.

**Department Description:** Computer science is a broad field that encompasses the study of computation and problem-solving, including the design and analysis algorithms, the formalization of algorithms as programs, the development of computational devices for executing those programs, and the networking of devices in order to share resources and computational power. Grounded in the liberal arts, the Department of Computer Science emphasizes critical thinking, communication skills, and breadth of knowledge in preparing its graduates for dynamic careers and continued professional growth.

**Web Contact/Information:** Additional information about this department may be found at <http://cs.creighton.edu>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

## PROGRAMS IN COMPUTER SCIENCE

**Specific Requirements for Admission to the Computer Science Major:** None.

### ***B.S., Major in Computer Science: 27 Credits***

#### *Course Requirements*

CSC 221	Computer Programming I	3 credits
CSC 222	Computer Programming II	3 credits
CSC 309	Discrete Structures	3 credits
CSC 414	Introduction to Computer Organization	3 credits
CSC 427	Data Structures and Algorithm Analysis	3 credits
CSC 533	Organization of Programming Languages	3 credits
CSC 539	Operating Systems Structure and Design	3 credits
CSC 548	Object Oriented Design	3 credits

One 400-level-or-above computer science course is required. 3 credits

### ***B.S.C.S., Major in Computer Science: 36 Credits***

#### *Course Requirements*

CSC 221	Computer Programming I	3 credits
CSC 222	Computer Programming II	3 credits
CSC 309	Discrete Structures	3 credits
CSC 414	Introduction to Computer Organization	3 credits
CSC 427	Data Structures and Algorithm Analysis	3 credits
CSC 533	Organization of Programming Languages	3 credits
CSC 539	Operating Systems Structure and Design	3 credits
CSC 548	Object Oriented Design	3 credits

Four additional 400-level-or-above computer sciences courses. 12 credits

No more than 6 credits of CSC 493 or 495 may be applied to the major.

*The program offers a Computer Science minor and an Interactive Web Design minor.  
See page 186-217 for details.*

## ***Certificate Programs in University College***

This department offers two certificate programs to students in University College: *Applied Computer Science* and *Computer Science*. See the descriptions for these certificates on page 270-279 in the University College section of the Bulletin.

***For all CSC courses, please refer to page 336.***

# EDUCATION AND COUNSELOR EDUCATION

Chair: Sharon Ishii-Jordan

Associate Chair: Timothy J. Cook

Director of Secondary Education: Timothy J. Cook

Director of Elementary Education: Lynne E. Houtz

Director of Counselor Education: Jeffrey M. Smith

Director of School Administration: W. Patrick Durov

Department Office: Hitchcock Communication Arts Building, Room 106

Professor: T. Dickel; Professor Emeritus: E. O'Connor;

Associate Professors: B. Brock, T. Cook, B. Doyle, L. Houtz, S. Ishii-Jordan, D. Ponec, J. Smith;

Assistant Professors: P. Durov, L. Olson, T. Simonds, Jr., S.J.

**Department Description:** The Education Department develops “Effective Leaders in the Jesuit Tradition” who will work toward the optimal learning of every student. The programs integrate Jesuit charisms, technology, cultural issues, and authentic assessments. There are two undergraduate programs: elementary education (major), secondary education (co-major); five graduate programs M.Ed. (secondary), MAGIS (secondary); M.S. in school administration (elementary or secondary), school counseling (elementary or secondary), and special populations; and a post-baccalaureate certificate program (secondary) and undergraduate/graduate endorsements in ESL and special education. Many courses include field experience at an elementary or secondary school, and students must arrange their own transportation. Prior to any field experience, the student must sign and have notarized two affidavits assuring that a) the student does not have a felony or misdemeanor conviction involving abuse, neglect, or sexual misconduct and b) the student is in sound mental capacity. The student must maintain this status throughout the program.

**Web Contact/Information:** Additional information about this department may be found at <http://puffin.creighton.edu/edu>. However, for definitive details, students are strongly encouraged to check the University’s website for Bulletin changes at <http://www.creighton.edu/Registrar>.

## PROGRAMS IN EDUCATION FOR THE UNDERGRADUATE

**Specific Requirements for Admission to Education Programs:** Students will be allowed to register for 300 level and above courses only after receiving formal admission to the Education Department. In order to be considered for admission, students must obtain and maintain a minimum GPA of 2.5, achieve acceptable scores on the Pre-Professional Skills Test (PPST), receive acceptable grades in EDU 103, EDU 207, and EDU 210, and complete department application procedures. In addition, an interview, letter of recommendation, and portfolio review will be requested by the Selection and Retention Committee.

### ***B. S., Major in Elementary Education (K-6): 57-68 Credits***

*This program in Elementary Education is fully accredited by the National Council for Accreditation of Teacher Education (NCATE).*

#### *Course Requirements*

#### **(All of the following:)**

EDU 103	American Education and the Interactive Process	3 credits
EDU 131	Literature for Children	3 credits
ENG 150	Rhetoric and Composition	3 credits
EDU 207	Educational Psychology	3 credits
EDU 209	Physical Education in the Elementary School	3 credits
EDU 210	Child and Adolescent Development	3 credits
EDU 242	Computer Related Technologies in Teacher Education	1 credit
ART 104	Elementary School Art	3 credits
MUS 104	Elementary School Music	3 credits
EDU 301	Methods of Teaching Language Arts in Elem. School	3 credits
EDU 302	Methods of Teaching Social Studies in Elem. School	3 credits
EDU 303	Methods of Teaching Mathematics in Elem. School	3 credits
EDU 304	Methods of Teaching Science in Elementary School	3 credits
EDU 311	Teaching of Reading	3 credits
EDU 315	World Geography	3 credits

EDU 525	Procedures for Including Students with Mild/Moderate Disabilities in the Regular Classroom	3 credits
EDU 583	Management Practices for Classroom Teachers	3 credits
EDU 451*	Elementary School Observation and Student Teaching	3-14 credits
EDU 453*	Seminar in Elem. School Student Teaching	2 credits
EDU 500	Remedial Reading	3 credits

In addition, the student must take science and math content courses chosen in consultation with the major advisor.

\* See Student Teaching on page 130.

### *Special Education for the Mildly/Moderately Handicapped K-6 Specialization: 21-30 Credits*

*This program is fully accredited by the National Council for Accreditation of Teacher Education (NCATE) and incorporates the standards of the Council for Exceptional Children (CEC).*

*Students who are completing the Elementary Education major may also prepare to teach students with mild/moderate disabilities. In addition to Elementary Education requirements, students may specialize in this area by completing the following sequence:*

**(All of the following):**

EDU 501	Psychology of Exceptional Children	3 credits
EDU 515	An Introduction to Special Education: Field Experience	3 credits
EDU 526	Multicategorical Methods for the Mildly Handicapped	3 credits
EDU 527	Diagnostic and Prescriptive Teaching of the Mildly and Moderately Handicapped Child	3 credits
EDU 528	Speech and Language Develop. for the Exceptional Child	3 credits
EDU 529	Seminar in Consultation and Collaboration Strategies	3 credits
EDU 530	Elementary School Observation and Student Teaching the Mildly/Moderately Handicapped	3-12 credits

### *English as a Second Language (K-12) Teaching Endorsement Specialization: 15 Credits*

*Students who are completing the elementary or secondary teaching certificates may add a teaching endorsement in English as a Second Language (ESL) by completing the following sequence:*

**(All of the following):**

EDU 319	Language Culture and the Individual	3 credits
EDU 541	Curriculum Design for English as a Second Language	3 credits
EDU 542	Methods in English Language Learning	3 credits
EDU 543	Practicum in English Language Learning	3 credits
ENG 520	History of the English Language	3 credits

Students must also present evidence of competence in a foreign language equivalent to two years of a high school level or two semesters of a college level foreign language.



### ***Co-Major: Secondary School Teaching Endorsement (7-12): 29-40 Credits***

This program in Secondary Education is fully accredited by the National Council for Accreditation of Teacher Education (NCATE)

Students planning to teach in a middle junior or senior high school must complete a major in an approved academic subject and a co-major in secondary education. An academic subject of at least 30 credits is required for Nebraska certification. The subjects available are Biology, Chemistry, English, French, German, History, Journalism, Latin, Physics, Religious Education, and Spanish.

The department also provides field endorsements in Art, Language Arts, Mathematics, Natural Science, and Social Science.

#### *Course Requirements*

##### **(All of the following:)**

EDU 103 American Education and the Interactive Process 3 credits

EDU 207 Educational Psychology 3 credits

##### *(concurrent with EDU 210)*

EDU 210 Child and Adolescent Development 3 credits

EDU 341 General Methods in Secondary Teaching 3 credits

EDU 342 Technology Laboratory in Secondary Education 1 credit

EDU 525 Procedures for Including Students with Mild/Moderate Disabilities in the Regular Classroom 3 credits

EDU 548 Teaching Reading in Content Areas in Middle and Secondary Schools 3 credits

EDU 583 Management Practices for Classroom Teachers 3 credits

EDU 591\* Secondary School Observation and Student Teaching 3-14 credits

EDU 593\* Seminar in Secondary School Student Teaching 1 credit

Additional 3 credits in special methods of teaching chosen from EDU 576-579 to correspond to the student's major area.

\* See Student Teaching on page 130.

### ***Special Education for the Mildly/Moderately Handicapped 7-12 Specialization: 24-33 Credits***

*This program is fully accredited by the National Council for Accreditation of Teacher Education (NCATE) and incorporates the standards of the Council for Exceptional Children (CEC).*

*Students who are completing the Secondary School Teaching Endorsement (7-12) may also prepare to teach students with mild/moderate disabilities. In addition to Secondary Education co-major and content major requirements, students may specialize in this area by completing the following sequence:*

##### **(All of the following:)**

EDU 500 Remedial Reading 3 credits

EDU 501 Psychology of Exceptional Children 3 credits

EDU 515 An Introduction to Special Education: Field Experience 3 credits

EDU 526 Multicultural Methods for the Mildly Handicapped 3 credits

EDU 527 Diagnostic and Prescriptive Teaching of the Mildly and Moderately Handicapped Child 3 credits

EDU 528 Speech and Language Development of the Exceptional Child 3 credits

EDU 529 Seminar in Consultation and Collaboration Strategies 3 credits

EDU 540\* Secondary School Observation and Student Teaching the Mildly/Moderately Disabled 3-12 credits

\*See Student Teaching on page 130.

Iowa certification may require the completion of EDU 505, "Methods and Strategies for Working with Families and Support Personnel for Exceptional Children and Youth."

### *English as a Second Language (K-12) Teaching Endorsement Specialization: 15 Credits*

*Students who possess the elementary or secondary teaching certificates may add a teaching endorsement in English as a Second Language (ESL) by completing the following sequence:*

**(All of the following:)**

EDU 319	Language Culture and the Individual	3 credits
EDU 541	Curriculum Design for English as a Second Language	3 credits
EDU 542	Methods in English Language Learning	3 credits
EDU 543	Practicum in English Language Learning	3 credits

**(One of the following:)**

ENG 520	History of the English Language	3 credits
EDU 522	Introduction to Linguistics	3 credits

Students must also present evidence of competence in a foreign language equivalent to two years of a high school level or two semesters of a college level foreign language.

### ***Post Baccalaureate Programs***

#### ***Mildly/Moderately Handicapped Endorsement (K-6): 24 Credits***

Students who have already met the requirement for an initial teaching certificate in Nebraska can apply for an additional endorsement in Mildly/Moderately Handicapped (K-6) by completing the following sequence:

**(All of the following:)**

EDU 500	Remedial Reading	3 credits
EDU 501	Psychology of Exceptional Children	3 credits
EDU 515	An Introduction to Special Education: Field Experience	3 credits
EDU 526	Multicategorical Methods for the Mildly Handicapped	3 credits
EDU 527	Diagnostic and Prescriptive Teaching of the Mildly and Moderately Handicapped Child	3 credits
EDU 528	Speech and Language Development	3 credits
EDU 529	Seminar in Consultation and Collaboration Strategies	3 credits
EDU 530*	Elementary School Observation and Student Teaching the Mildly/Moderately Handicapped	3 credits

\* See Student Teaching on page 130.

A Human Relations class may be required by the Nebraska Department of Education. Iowa certification may require the completion of EDU 505, "Methods and Strategies for Working with Families and Support Personnel for Exceptional Children and Youth."

#### ***Mildly/Moderately Handicapped Endorsement (7-12): 24 Credits***

Students who have already met the requirement for an initial teaching certificate in Nebraska can apply for an additional endorsement in Mildly/Moderately Handicapped (7-12) by completing the following sequence:

**(All of the following:)**

EDU 500	Remedial Reading	3 credits
EDU 501	Psychology of Exceptional Children	3 credits
EDU 515	An Introduction to Special Education: Field Experience	3 credits
EDU 526	Multicategorical Methods for the Mildly Handicapped	3 credits
EDU 527	Diagnostic and Prescriptive Teaching of the Mildly and Moderately Handicapped Child	3 credits
EDU 528	Speech and Language Development of the Exceptional Child	3 credits
EDU 529	Seminar in Consultation and Collaboration Strategies	3 credits
EDU 540	Secondary School Observation and Student Teaching the Mildly/Moderately Disabled	3 credits

A Human Relations class may be required by the Nebraska Department of Education. Iowa certification requires the completion of EDU 505, "Methods and Strategies for Working with Families and Support Personnel for Exceptional Children and Youth."

## *English as a Second Language (K-12) Teaching Endorsement Specialization: 15 Credits*

*Students who possess the elementary or secondary teaching certificates may add a teaching endorsement in English as a Second Language (ESL) by completing the following sequence:*

EDU 319	Language Culture and the Individual	3 credits
EDU 541	Curriculum Design for English as a Second Language	3 credits
EDU 542	Methods in English Language Learning	3 credits
EDU 543	Practicum in English Language Learning	3 credits
ENG 520	History of the English Language	3 credits

Students must also present evidence of competence in a foreign language equivalent to two years of a high school level or two semesters of a college level foreign language.

### ***Student Teaching\****

Student teaching is a one-semester (16 weeks), full-day teaching experience. All students must participate in the appropriate Student Teaching Seminar for their area (EDU 453 or EDU 593). Students must reserve the entire teaching day for participation in a K-12 school's student teaching experience. Students follow the calendar of the K-12 school rather than the Creighton University calendar during the student teaching semester. Any deviation from the program must be approved in writing by the Education Department's Selection and Retention Committee. If student teaching in special education is taken during the same semester as student teaching in elementary or secondary education, then each field experience will be 10 weeks for a total of 20 weeks.

### ***Teacher Certification***

In addition to completing all requirements of the chosen programs in the Education and Counselor Education Department, students must consult with the Education Department and with the appropriate agency in the state in which they intend to teach.

### ***Program in University College***

College graduates with majors in certain subject areas may pursue a *Post Baccalaureate Secondary School Teaching Endorsement (7-12)* by completing the professional education courses listed above under "*Co-major: Secondary School Teaching Endorsement (7-12)*" in a one-year accelerated program that begins each June and concludes in May of the following year. For admissions, procedures and information, please contact University College or the Director of Secondary Education.

***For all EDU courses, please refer to page 344.***

## ***ENCUENTRO DOMINICANO***

Academic Director: Thomas M. Kelly

Omaha Office: Associate Dean Francis M. Klein, Admin 228

**Program Description:** *Encuentro Dominicano* ("Dominican Encounter") is a semester-long academic living-learning program that integrates community-based learning with traditional coursework in a cross-cultural immersion context. Reporting to the Creighton College of Arts and Sciences and the Department of Residence Life, but enrolling students from any of Creighton's undergraduate colleges and schools, *Encuentro Dominicano* reflects the Mission of the University, especially its call for participation in the tradition of the Society of Jesus and its integrating vision of the world. As such, it fosters commitment to a faith that promotes justice, service to others, appreciation of ethnic and cultural diversity, stimulation of creative and critical thinking, and provision of ethical perspectives for dealing with an increasingly complex world.

Each semester, a select group of undergraduate students leave for the CESI Center, a self-contained facility that provides health services and pastoral care in and around Santiago, a city of over 850,000 inhabitants in the north of the Dominican Republic. Students take the usual 15 credits in coursework, including one required course: EDP 361, a comprehensive 6-credit course in the history, sociology, politics, economics and faith traditions of the Dominican Republic and the Caribbean. EDP 361 also employs service-learning pedagogy, the possibility for internships, and homestays in local communities. Ample opportunity is provided for guided reflection on all that students experience during their time in the Dominican Republic.

*Encuentro Dominicano* students also enroll in other courses to build up a fulltime course load and enable them to progress appropriately towards graduation. They usually take a Spanish language

course at a level commensurate with their prior language training and additional courses offered by faculty visiting the Program. Every reasonable effort is made to accommodate individual circumstances, but the demands of some majors may be hard to meet in combination with participation in this program. For this reason, and also because the program can admit only a limited number of students each semester, those interested in participating are very strongly encouraged to consult with the Academic Director and with their Dean at the first opportunity.

**Web Contact/Information:** Additional information about this department may be found at <http://www2.creighton.edu/encuentro/>.

*For all EDP courses, please refer to page 353.*

## ENGLISH

Chair: Brent A. Spencer

Department Office: Hitchcock Communication Arts Building, Room 304

Professors: B. Keegan, B. Spencer, G. Zacharias; Professor Emeritus: R. Garcia, J. Karabatsos;

Associate Professors: S. Aizenberg, N. Chiwengo, R. Dornsife, F. Fajado-Acosta, D. Gardiner,

M.H.Stefaniak, S. Stenberg, R. Whipple; Associate Professor Emeriti: N.

Fogarty, T. Kuhlman, M. Sundermeier;

Assistant Professors: R. Churchill, N. Ha, N. Houston, J. Ladino, G. Merys, K. Rettig, B. Stafford,

**Department Description:** In accordance with the character and goals of Creighton University, the Department of English and the programs it offers promote the intellectual, spiritual, and professional growth of Creighton students through the study of the English language; American, British, and Irish literature; World, Ethnic, Women's and Minority literature; Creative Writing and the Language Arts. English major programs provide graduates with a solid knowledge of their field, critical thinking and writing skills, and the values and ethical background necessary for becoming active, productive, and successful members of society. A training in English at Creighton endows a graduate with a well-rounded education, a broad perspective on human issues, a tolerant and respectful attitude toward diversity, and an approach to work and human interactions based on love, kindness, and commitment to service to the human community.

**Web Contact/Information:** Additional information about this department may be found at <http://creightonenglish.org>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

### PROGRAMS IN ENGLISH

**Specific Requirements for Admission to the English Major:** Completion of ENG 120, ENG 121, and ENG 150 with a grade of "C" or better. Students who wish to apply to the Creative Writing Specialization: Completion of ENG 300 with a grade of "B" or better or permission of the Director of Creative Writing.

#### ***B. A., Major in English: 36 Credits***

**(All of the following:)**

ENG 201	Interpreting Texts	3 credits
ENG 202	Entering a Professional Dialogue	3 credits
ENG 499	Senior Project	3 credits

*Literatures and Histories*

**(One of the following:)**

ENG 329	American Literature/American Identity	3 credits
ENG 330	Introduction to Irish Literature	3 credits
ENG 340	English Literature I: Medieval/Early Renaissance	3 credits
ENG 341	English Literature II: Late Renaissance/Neo-Classical	3 credits
ENG 342	English Literature III: Romantic/Victorian	3 credits
ENG 350	American Literature I: Beginnings to Civil War	3 credits
ENG 351	American Literature II: 1860-1914	3 credits
ENG 352	English and American Literature: 1914 to the Present	3 credits
ENG 353	Introduction to Native American Literature	3 credits
ENG 381	Literature and the Environment	3 credits
ENG 389	The Roaring Twenties	3 credits
ENG 390	Introduction to African Literature	3 credits

ENG 393	African-American Literature	3 credits
ENG 398	Literature of Francophone Africa	3 credits
ENG 405	The Thirties	3 credits
ENG 410	Women in Literature	3 credits
ENG 420	Utopian Literature	3 credits
ENG 425	Popular Literature	3 credits
ENG 426	Canadian Literature	3 credits
ENG 430	Studies in Irish Literature	3 credits
ENG 431	Irish Drama	3 credits
ENG 432	The Irish Renaissance	3 credits
ENG 433	Contemporary Irish Literature	3 credits
ENG 435	Literature, Philosophy and Economics	3 credits
ENG 436	Studies in Irish Literary History and Culture	3 credits
ENG 444	Modern British Poetry	3 credits
ENG 470	Seminar in Film Studies	3 credits
ENG 475	Contemporary American Literature	3 credits
ENG 480	History of Literary Criticism	3 credits
ENG 481	Special Topics in British Literature	3 credits
ENG 482	Special Topics in American Literature	3 credits
ENG 483	Special Topics in Irish Literature	3 credits
ENG 484	Special Literary Topics	3 credits

*Cultures and Identities*

**(One of the following:)**

ENG 305	Personal Values in Creative Writing	3 credits
ENG 312	Mass Media and Modern Culture	3 credits
ENG 329	American Literature/ American Identity	3 credits
ENG 353	Introduction to Native American Literature	3 credits
ENG 371	American Literature: Vision and Reality	3 credits
ENG 390	Introduction to African Literature	3 credits
ENG 393	African American Literature	3 credits
ENG 398	Literature of Francophone Africa	3 credits
ENG 410	Women in Literature	3 credits
ENG 426	Canadian Literature	3 credits
ENG 434	Irish-American Literature	3 credits
ENG 476	Writing and Working for Justice	3 credits

*Writing and Language*

**(One of the following:)**

ENG 251	Advanced Composition	3 credits
ENG 300	Introduction to Creative Writing	3 credits
ENG 301	Creative Writing: Narrative Forms	3 credits
ENG 302	Creative Writing: Poetic Forms	3 credits
ENG 305	Personal Values in Creative Writing	3 credits
ENG 310	Writing Strategies for the Organization	3 credits
ENG 311	Ethics and the Uses of Rhetoric	3 credits
ENG 312	Mass Media and Modern Culture	3 credits
ENG 313	The Essay: Critical and Developmental Reading	3 credits
ENG 314	Explorations of the Essay: Self, Subject and Culture	3 credits
ENG 315	Technical and Professional Writing	3 credits
ENG 317	Composition Theory and Practice	3 credits
ENG 403	Seminar in Creative Writing	3 credits
ENG 404	Screenwriting	3 credits
ENG 438	Literacy and Community	3 credits
ENG 439	Literacy and Technology	3 credits
ENG 472	Alternative Discourse in the Academy	3 credits
ENG 477	The Elements of Style	3 credits
ENG 479	Creative Writing Internship	1-3 credits

**(Three credits chosen from one of the following two areas:)**

*Authors*

ENG 408	Chaucer	3 credits
ENG 409	Shakespeare	3 credits
ENG 411	Milton	3 credits
ENG 412	Studies in Major Authors	3 credits

*Genres*

ENG 301	Creative Writing: Narrative Forms	3 credits
ENG 302	Creative Writing: Poetic Forms	3 credits
ENG 312	Mass Media and Modern Culture	3 credits
ENG 313	The Essay: Critical and Developmental Reading	3 credits
ENG 314	Explorations of the Essay	3 credits
ENG 315	Technical and Professional Writing	3 credits
ENG 380	History and Criticism of Cinema	3 credits
ENG 420	Utopian Literature	3 credits
ENG 425	Popular Literature	3 credits
ENG 431	Irish Drama	3 credits
ENG 442	18th and/or 19th-Century British Novel	3 credits
ENG 443	Modern British Novel	3 credits
ENG 444	Modern British Poetry	3 credits
ENG 450	Contemporary British Literature	3 credits
ENG 451	Modern Novel	3 credits
ENG 452	Modern Drama	3 credits
ENG 453	Modern Poetry	3 credits
ENG 460	Satire	3 credits
ENG 461	Comedy	3 credits
ENG 469	Modern American Poetry	3 credits
ENG 470	Seminar in Films Studies	3 credits
ENG 471	Modern American Drama	3 credits
ENG 473	19th-Century American Novel	3 credits
ENG 474	Modern American Novel	3 credits
ENG 475	Contemporary American Literature	3 credits

Additional 15 credits from ENG courses numbered 300 or above. 15 credits

Students may not use a single course to satisfy more than one requirement.

*Specialization in Creative Writing*

As an alternative to the 15 additional credits of ENG courses, students may specialize in this area by taking 15 credits as follows:

**(All of the following:)**

ENG 300	Introduction to Creative Writing	3 credits
ENG 301	Creative Writing: Narrative Forms	3 credits
ENG 302	Creative Writing: Poetic Forms	3 credits
ENG 403	Seminar in Creative Writing	3 credits

Three additional credits from ENG courses numbered 300 or above 3 credits

*Specialization in Irish Literature*

As an alternative to the 15 additional credits of ENG courses, students may specialize in this area by taking 15 credits as follows:

**(All of the following:)**

ENG 330	Introduction to Irish Literature	3 credits
ENG 432	The Irish Renaissance	3 credits
ENG 433	Contemporary Irish Literature	3 credits

**(One of the following:)**

ENG 412	Studies in Major Authors	3 credits
ENG 430	Studies in Irish Literature	3 credits
ENG 431	Irish Drama	3 credits
ENG 434	Irish-American Literature	3 credits
ENG 436	Studies in Irish Literature History and Culture	3 credits

Three additional credits from ENG courses numbered 300 or above 3 credits

### *Specialization in English Education*

As an alternative to the 15 additional credits of ENG courses, students may specialize in this area by taking 15 credits as follows:

ENG 300	Introduction to Creative Writing	3 credits
ENG 312	Mass Media and Modern Culture	3 credits
ENG 409	Shakespeare	3 credits
ENG 421	History of the English Language	3 credits

Three additional credits from ENG courses numbered 300 or above 3 credits

### *Specialization in American Literature*

As an alternative to the 15 additional credits of ENG courses, students may specialize in this area by taking 15 credits as follows:

ENG 350	American Literature I: Beginnings to Civil War	3 credits
ENG 351	American Literature II: 1860-1914	3 credits
ENG 352	English and American Literature: 1914 to the Present	3 credits

#### **(One of the following:)**

ENG 393	African-American Literature	3 credits
ENG 412	Studies in Major Authors	3 credits
ENG 434	Irish American Literature	3 credits

Three credits of American Literature (as approved by Advisor/Chair) 3 credits

### *Specialization in British Literature*

As an alternative to the 15 additional credits of ENG courses, students may specialize in this area by taking 15 credits as follows:

ENG 340	English Literature I: Medieval/Early Renaissance	3 credits
ENG 341	English Literature II: Late Renaissance/Neo-Classical	3 credits
ENG 342	English Literature III: Romantic/Victorian	3 credits

#### **(One of the following:)**

ENG 409	Shakespeare	3 credits
ENG 411	Milton	3 credits
ENG 412	Studies in Major Authors	3 credits

Three credits of British Literature (as approved by Advisor/Chair) 3 credits

### *Specialization in Rhetoric and Composition*

As an alternative to the 15 additional credits of ENG courses, students may specialize in this area by taking 15 credits as follows:

#### **(One of the following:)**

ENG 312	Mass Media and Modern Culture	3 credits
ENG 380	History and Criticism of Cinema	3 credits

#### **(One of the following:)**

ENG 315	Technical and Professional Writing	3 credits
ENG 439	Literacy and Technology	3 credits

#### **(One of the following:)**

ENG 317	Composition Theory and Practice	3 credits
ENG 438	Literacy and Community	3 credits

Six additional credits from ENG courses numbered 300 or above 6 credits

*The program offers an English minor. See page 199 for details.*

### **Teacher Certification**

Students who think they may teach English in the secondary schools must consult with the Education Department, with the English Department, and with the appropriate agency in the state in which they intend to teach.

### **Certificate Programs in University College**

This department offers two certificate programs to students in University College: *Creative Writing Certificate* and *Irish Literature Certificate*. See the descriptions for these certificates on page 270-279 in the University College section of the Bulletin.

***For all ENG courses, please refer to page 354.***

# ENVIRONMENTAL SCIENCES

Program Director: John Schalles

Program Office: Hixson-Lied Science Building, Room 504

Professors: A. Douglas, T. Burk, C. Harper, J. Platz, J. Schalles;

Associate Professors: G. Michels, M. Vinton;

Assistant Professors: M. Anderson, A. Cullum, J. Martinelli, G. Ramsden, J. Schrage.

**Department Description:** The Environmental Sciences Major introduces students to a wide range of integrated coursework within the natural and physical sciences. The major is aimed at providing career opportunities related to environmental issues and in providing a broad background for graduate work within the natural and physical sciences. The major offers four distinct tracks: (1) Global Environmental Systems which explores ecological and climatological aspects of the integrated earth system, (2) Environmental Analysis and Pollution which stresses methods in detection, monitoring and abatement of pollution, (3) Organismal/Population Ecology which emphasizes biological aspects of the environment and, (4) Environmental Policy and Society which addresses historical political and sociological aspects of environmental issues.

**Web Contact/Information:** Additional information about this department may be found at <http://evs.creighton.edu/>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

## PROGRAMS IN ENVIRONMENTAL SCIENCE

**Specific Requirements for Admission to the Environmental Science Major:** Successful completion of ATS 113 or BIO 211 or CHM 203 and CHM 204.

### ***B.S. Evs., Major in Environmental Science: 45 Credits***

#### *Course Requirements*

*The following courses are required for all tracks. In addition, the students must choose one track.*

#### **(All of the following:)**

EVS 113	Introduction to Atmospheric Sciences	3 credits
EVS 114	Introduction to Atmospheric Sciences Laboratory	1 credit
EVS 390	Environmental Science	3 credits
EVS 491	Senior Seminar	2 credits
EVS 533	Physical Climatology and Climate Change	3 credits
EVS 555	Meteorological Remote Sensing	3 credits
BIO 211	General Biology: Molecular and Cellular	4 credits
BIO 212	General Biology: Organismal and Population	4 credits
CHM 203	General Chemistry I	3 credits
CHM 204	General Chemistry Laboratory I	1 credit
CHM 205	General Chemistry II	3 credits
CHM 206	General Chemistry Laboratory II	1 credit



### *Global and Environmental Systems Track*

**(Fourteen credits from the following:)**

EVS 341	General Botany	4 credits
EVS 435	Field Biology in the Southeastern United States	4 credits
EVS 440	Field Biology of the Desert Southwest	4 credits
EVS 443	Environmental Geology	4 credits
EVS 460	Terrestrial Remote Sensing	4 credits
EVS 481	Terrestrial Ecology	4 credits
EVS 485	Marine and Freshwater Ecology	3 credits
EVS 486	Freshwater Ecology Laboratory	1 credit
EVS 487	Marine Ecology Laboratory	2 credits
EVS 541	Atmospheric Diffusion, Air Pollution, and Environmental Impact Analysis	3 credits
EVS 544	Hydrology	3 credits
EVS 553	Tropical Meteorology	3 credits
EVS 556	Introduction to Physical Oceanography	3 credits

### *Environmental Analysis and Pollution Track*

**(Fourteen credits from the following:)**

EVS 443	Environmental Geology	4 credits
EVS 460	Terrestrial Remote Sensing	4 credits
EVS 523	Environmental Toxicology	3 credits
EVS 541	Atmospheric Diffusion, Air Pollution, and Environmental Impact Analysis	3 credits
EVS 544	Hydrology	3 credits
EVS 552	Boundary Layer Meteorology	3 credits
EVS 556	Introduction to Physical Oceanography	3 credits
CHM 315	Quantitative Analysis	4 credits
CHM 321	Organic Chemistry I	3 credits
CHM 322	Organic Chemistry Laboratory I	1 credit
CHM 323	Organic Chemistry Lecture II	3 credits
CHM 324	Organic Chemistry Laboratory II	1 credit
CHM 456	Instrumental Analysis	3 credits
CHM 466	Instrumental Analysis Laboratory	2 credits

**Requisite Courses required under the Environmental Analysis and Pollution Track: MTH 245, PHY 211 and PHY 212.**



### *Organismal/Population Ecology Track*

**(Fourteen credits from the following:)**

EVS 335	Zoology	4 credits
EVS 341	General Botany	4 credits
EVS 351	Microbiology	4 credits
EVS 385	The Ecology, Geography and Health of Lakes	4 credits
EVS 435	Field Biology in the Southeastern United States	4 credits
EVS 440	Field Biology of the Desert Southwest	4 credits
EVS 443	Environmental Geology	4 credits
EVS 449	Animal Physiology	3 credits
EVS 450	Animal Physiology Laboratory	1 credit
EVS 460	Terrestrial Remote Sensing	4 credits
EVS 481	Terrestrial Ecology	4 credits
EVS 483	Vertebrate Natural History Lecture	3 credits
EVS 484	Vertebrate Natural History Laboratory	1 credit
EVS 485	Marine and Freshwater Ecology	3 credits
EVS 486	Freshwater Ecology Laboratory	1 credit
EVS 487	Marine Ecology Laboratory	2 credits
EVS 549	Environmental Physiology	3 credits
EVS 561	Entomology	4 credits
EVS 571	Animal Behavior	3 credits
EVS 572	Animal Behavior Laboratory	2 credits
EVS 581	Evolution	4 credits

MTH 245, PHY 211 and PHY 212 are highly recommended and may be required for students planning on attending specific graduate programs.

### *Environmental Policy and Society Track*

**(Fourteen credits; at least 3 credits from Group B:)**

**Group A:**

EVS 307	Demography: World Population Issues	3 credits
EVS 333	Environmental Politics and Policy	3 credits
EVS 354	Environmental Ethics	3 credits
EVS 355	Environment and Society	3 credits

**Group B:**

EVS 443	Environmental Geology	4 credits
EVS 460	Terrestrial Remote Sensing	4 credits
EVS 523	Environmental Toxicology	3 credits
EVS 541	Atmospheric Diffusion, Air Pollution, and Environmental Impact Analysis	3 credits
CHM 456	Instrumental Analysis	3 credits
CHM 466	Instrumental Analysis Laboratory	2 credits

*The program offers an Environmental Science minor and an Environmental Policy minor. See the Minor section of this Bulletin for details, pages 186-217.*

### ***Certificate Programs in University College***

This department offers one certificate program in Environmental Science to students in University College. See the description for this certificate on page 273 in the University College section of the Bulletin.

***For all EVS courses, please refer to page 360.***

# EXERCISE SCIENCE AND ATHLETIC TRAINING

Chair: Thomas Baechle

Department Office: Kiewit Fitness Center, Room 225

Professor: T. Baechle;

Associate Professor: J. Eckerson;

Assistant Professors: A. Bull, G. Lambert, C. Pfeifer.

**Department Description:** The Department of Exercise Science and Athletic Training offers Bachelor of Science degree programs in Exercise Science and Athletic Training. The Exercise Science major prepares students for careers in several health-fitness fields such as corporate/community/commercial fitness, personal training, and strength training and conditioning. This major is also an attractive option for students seeking an advanced degree in exercise science/exercise physiology or who intend to pursue careers in physical or occupational therapy, nursing, cardiopulmonary rehabilitation, medicine, dentistry, and pharmacy or as physician assistants. Coursework provided in the Exercise Science major prepares students for national certifications offered by the American College of Sports Medicine and the National Strength and Conditioning Association Certification Commission.

The Department also offers a major in Athletic Training; athletic training is that aspect of allied health care that is concerned with the overall health care and safety of the athlete. Athletic trainers typically find employment in colleges, universities, high schools, professional sports teams, and sports medicine clinics. The Athletic Training Education Program (ATEP) is accredited by the Commission on the Accreditation of Athletic Training Education (CAATE). This program progresses students through a highly structured academic and clinical education program that is designed to provide qualified graduates with the skills necessary to become successful in the athletic training profession in various settings. Upon completion of degree requirements, students are eligible to sit for the National Athletic Trainers' Association Board of Certification (NATABOC) examination to attain the credential of certified athletic trainer. Due to the highly individualized nature of the athletic training major, students who wish to pursue this major must be formally admitted to ATEP.

**Web Contact/Information:** Additional information about this department may be found at <http://puffin.creighton.edu/exs/index.htm>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

## PROGRAM IN EXERCISE SCIENCE

**Specific Requirements for Admission to Exercise Science:** Enrollment is based upon the following requirements: A minimum of 30 credits in Creighton University coursework with a cumulative GPA of 2.75; a grade of "C" or better in CHM 203/204 or 205/206 and BIO 211 or 212. Students apply for admission to the major through the College of Arts and Sciences website.

### ***B.S., Major in Exercise Science: 45-47 Credits***

#### *Course Requirements*

#### **(All of the following:)**

EXS 125	First Aid	2 credits
EXS 142	Personalized Weight Training	1 credit
EXS 144	Aerobics	2 credits
EXS 195	Introduction to Athletic Training	3 credits
EXS 240	Designing a Personalized Fitness Program	3 credits
EXS 320	Human Physiology	4 credits
EXS 331	Human Anatomy	4 credits
EXS 334	Biomechanics	3 credits
EXS 335	Exercise Physiology	4 credits
EXS 350	Nutrition for Health and Sports Performance	3 credits
EXS 401	Exercise Prescription	3 credits
EXS 407	Basic Statistics and Research Design	3 credits
EXS 489	Laboratory Methods and Procedures	4 credits
EXS 491	Exercise Leadership and Program Administration	3 credits
EXS 492	Exercise Science Internship	3-5 credits

### ***Certificate Programs in University College***

This department does not offer a certificate program in Exercise Science to students in University College.

***For all EXS courses, please refer to page 365.***

## *PROGRAM IN ATHLETIC TRAINING*

The athletic training education program offers an undergraduate degree through the Athletic Training Major in the Department of Exercise Science and Athletic Training and is accredited by the Commission on the Accreditation of Athletic Training Education (CAATE). This program is designed to provide qualified graduates with the skills necessary to become successful in the athletic training profession in various settings. Upon completion of degree requirements, students are eligible to sit for the National Athletic Trainers' Association Board of Certification (NATABOC) Examination to attain the credential of certified athletic trainer. The following detailed program description is mandated by our accrediting body.

**Statement of Objectives:** The Creighton University Athletic Training Education Program (ATEP) seeks to provide opportunities and guidance to students to master the knowledge and skills necessary to become competent and efficient as certified athletic trainers. Athletic training is the art and science of preventing and treating injuries incurred during athletic participation at all levels of competition. The Joint Review Commission – Athletic Training (JRC-AT) and CAATE define athletic trainer as a 'qualified allied health care professional educated and experienced in the management of health care problems associated with a physically active population.'

Athletic training is an applied discipline devoted to achieving the outcomes of injury prevention, recognition, evaluation, and rehabilitation of athletic injuries. The ATEP prepares individuals for employment in high schools, colleges, professional sports programs, clinical settings, and other health care agencies. Those selected into the ATEP will be provided with educational experiences that include an effective blend of classroom instruction and clinical experience. The ATEP promotes acceptable standards of ethical conduct in accordance to the National Athletic Trainers' Association (NATA) Code of Ethics, and challenges the student to develop optimal skills as specified in the Competencies in Athletic Training. The ATEP seeks to continually seek the highest quality in instructional technique, equipment, clinical experiences, and student achievements, along with continually determining the reliability and validity of athletic training course content and athletic training room experiences. In addition, the ATEP seeks to provide students the opportunity to develop their skills with both male and female sports, team and individual sports, high-risk and low-risk sports, and exposure to injuries and illnesses of a diverse population of physically active individuals.

**Specific Requirements for Admission to Athletic Training:** The Creighton University ATEP has a selective admissions program. To be considered for admission into the ATEP a student must meet the following minimum standards:

- A. A minimum of 30 credits in Creighton University coursework with a cumulative GPA of 2.75.
- B. A grade of "C" or better in CHEM 203/204 or 205/206 AND BIO 211 or 212.
- C. Completion of ATE 195 *Introduction to Athletic Training* with a grade of "B" or better.
- D. Completion of at least 50 hours of observation in the Creighton University Athletic Training Room.

Due to the highly individualized nature of the athletic training major, students who wish to pursue the major must be formally admitted into the ATEP. The student may begin the application process as early as the Spring semester of their freshman year at Creighton University. Once the minimum standards are met (listed above), students must submit the following materials in a single application packet (obtained from the Department of Exercise Science and Athletic Training).

1. Official transcripts of college coursework completed at Creighton University and/or other institutions of higher education.
2. A completed application form.
3. Three professional reference forms: one from a Creighton University faculty member, one from a certified athletic trainer, and one from a personal reference who can comment on the character of the student.

The admissions process proceeds as follows:

- A. Applications received will be reviewed by the ATEP Admissions Committee.
- B. The ATEP Admissions Committee will contact qualified applicants to schedule formal interviews prior to the end of the spring semester.
- C. The ATEP Admissions Committee will meet and discuss all applications and interviews.

- D. The ATEP uses a competitive selection process; therefore, not all students who have met the minimum criteria and submit completed application packets are guaranteed acceptance into the program.
- E. Students may reapply the following year if not admitted.
- F. Applicants selected for admission will be notified in writing and must accept in writing within two weeks of notification. Declined offers may be filled from an alternate list as needed.

Once admitted into the ATEP, students are required to submit the following materials prior to the Fall semester:

1. Evidence of Hepatitis B vaccine or signed waiver form
  2. Signed Technical Standards Form
  3. Proof of a completed physical examination
  4. Current First Aid and CPR certifications, including completion of ATE 125 First Aid or evidence of current enrollment in the appropriate coursework that will culminate in receiving these certifications
- \* The starting date for students accepted into the ATEP is the first day of pre-participation physical examinations that occurs at the beginning of the subsequent Fall semester

It is the policy of the ATEP that all decisions regarding recruitment and admissions shall be made without discrimination on the basis of race, color, age, disability, religion, sex, national origin, marital status, veteran's status, political affiliation, sexual orientation or other individual characteristics other than qualifications for the program, quality of performance and conduct related to the program in accord with Creighton University policies, rules and applicable law.

For a complete explanation of admission requirements, students are encouraged to visit the Creighton University Athletic Training website at <http://www.creighton.edu/athletictraining>.

### ***B. S., Major in Athletic Training: 51 Credits***

#### *Course Requirements*

#### **(All of the following:)**

ATE 125	First Aid	2 credits
ATE 195	Introduction to Athletic Training	3 credits
ATE 210	Athletic Training Practicum I	1 credit
ATE 211	Athletic Training Practicum II	1 credit
ATE 240	Designing a Personalized Fitness Program	3 credits
ATE 305	Therapeutic Modalities	3 credits
ATE 306	Therapeutic Exercise	3 credits
ATE 310	Athletic Training Practicum III	1 credit
ATE 311	Athletic Training Practicum IV	1 credit
ATE 320	Human Physiology	4 credits
ATE 331	Human Anatomy	4 credits
ATE 334	Biomechanics	3 credits
ATE 335	Exercise Physiology	4 credits
ATE 350	Nutrition for Health and Sports Performance	3 credits
ATE 355	Athletic Training Administration	3 credits
ATE 395	Lower Body Evaluation	3 credits
ATE 396	Upper Body Evaluation	3 credits
ATE 410	Athletic Training Practicum V	1 credit
ATE 411	Athletic Training Practicum VI	1 credit
ATE 475	Directed Study in Athletic Training	1 credit
ATE 488	Athletic Training Internship	3 credits

### ***Certificate Programs in University College***

This department does not offer a certificate program in Athletic Training to students in University College.

***For all ATE courses, please refer to page 307.***

## FINE AND PERFORMING ARTS

Chair: Frederick Hanna

Associate Chair, Visual Arts: G. Ted Bohr, S.J.;  
Associate Chair, Performing Arts: Carole J. Seitz;  
Coordinator of Dance: Lisa M. Carter;  
Coordinator of Music: C. Jurgensmeier, S.J.;  
Coordinator of Theatre: William Van Deest

Department Office: Lied Education Center for the Arts, Room 101

Professor: M. Flecky, S.J.;

Associate Professors: R. Aikin, L. Alston, R. Bosco, F. Hanna, W. Hutson, A. Klem, C. Seitz, J. Thein;

Assistant Professors: T. Bohr, S.J., L. Carter, B. Hough (secondary appointment), C. Jurgensmeier, S.J..

**Department Description:** Fine and Performing Arts Department offers courses for non-majors and B.A. and B.F.A. degrees in Art History, Studio Art, Graphic Design, and Theatre; a B.A. in Music; and minors in Art, Dance, Music and Theatre. The department stages theatrical and dance productions each year, numerous musical events, and several art exhibitions in our state-of-the-art facility, The Lied Education Center for the Arts, which is the focus of performing arts at Creighton.

**Web Contact/Information:** Additional information about this department may be found at <http://finearts.creighton.edu>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

### PROGRAMS IN ART

**Specific Requirements for Admission to the Art Major:** Studio Art: successful completion of ART 105, ART 253 and acceptable portfolio, normally at the end of the Sophomore year. Art History Track: Successful completion of ART 219 and two additional Art History courses.

#### **B. A., Major in Art: 36-39 Credits**

##### *Course Requirements*

*The following courses are required for both tracks. In addition, the student must choose one track.*

##### **(All of the following):**

ART 105	Art Fundamentals	3 credits
ART 219	History of Art	3 credits

##### *Studio Art Track*

##### **(All of the following):**

ART 321	Life Drawing I	3 credits
ART 331	Painting I	3 credits

##### **(One of following):**

ART 153	Sculpture I	3 credits
ART 211	Introductory Ceramics	3 credits

##### **(One of the following):**

ART 271	Photography Studio I	3 credits
ART 347	Etching I	3 credits

##### **(One of the following):**

ART 306	Color: Acrylic and Chalk	3 credits
ART 381	Computer Illustration	3 credits

##### *Art History*

##### **(Six credits from the following):**

ART 319	Art International: The Art Culture of the Global Comm.	3 credits
ART 349	Egyptian Art and Archaeology	3 credits
ART 350	Archaeology of Syria-Palestine	3 credits
ART 354	Greek Art and Archaeology	3 credits
ART 355	Greek Art and Archaeology (travel)	3 credits
ART 360	Art of the Middle Ages	3 credits
ART 361	Art of the Renaissance in Europe	3 credits

ART 362	Early Christian Art and Archaeology	3 credits
ART 363	Baroque Art	3 credits
ART 364	History of Architecture	3 credits
ART 365	Greek Art	3 credits
ART 366	Etruscan and Roman Art	3 credits
ART 367	Nineteenth Century Art	3 credits
ART 368	Survey of American Art	3 credits
ART 369	Modern European Art, 1900-1945	3 credits
ART 380	History and Criticism of Cinema	3 credits
ART 383	History and Aesthetics of Photography	3 credits
ART 386	The History and Aesthetics Latin American Photo.	3 credits
ART 391	History and Methods Of Art History	3 credits
ART 392	Seminar in Art Criticism	3 credits
ART 397	Summer Art History Seminar	1 credit
ART 418	Jesus Through The Ages	3 credits
ART 428	Film and The Fine Arts	3 credits
ART 430	Selected Topics in Ancient Art	3 credits
ART 461	The City of Rome	3 credits
ART 465	Contemporary Art	3 credits
ART 466	Idea of Rome in The Arts	3 credits
ART 467	History of The Art of Spain and Her Colonies	3 credits
ART 468	Native American Art	3 credits
ART 480	Management of Arts Organizations	3 credits
ART 493	Directed Independent Readings	1-3 credit(s)
ART 497	Directed Independent Research	1-2 credit(s)

*Studio Art*

**(Nine credits from the following:)**

ART 153	Sculpture I	3 credits
ART 211	Introductory Ceramics	3 credits
ART 253	Sculpture II	3 credits
ART 271	Photography Studio I	3 credits
ART 306	Color: Acrylic and Chalk	3 credits
ART 311	Intermediate Ceramics I	3 credits
ART 312	Intermediate Ceramics II	3 credits
ART 321	Life Drawing I	3 credits
ART 322	Life Drawing II	3 credits
ART 327	Advertising Design I	3 credits
ART 328	Advertising Design II	3 credits
ART 331	Painting I	3 credits
ART 332	Painting II	3 credits
ART 345	Relief Printing: Woodcut and Linoleum	3 credits
ART 347	Etching I	3 credits
ART 348	Etching II	3 credits
ART 353	Sculpture III	3 credits
ART 371	Photography Studio II	3 credits
ART 372	Color Photography	3 credits
ART 373	Photographic Design and Non-Silver Process	3 credits
ART 375	Photojournalism I	3 credits
ART 376	The Photo Diary	3 credits
ART 377	Editorial Illustration	3 credits
ART 378	Photojournalism II: Picture Editing	3 credits
ART 379	Print Design	3 credits
ART 381	Computer Illustration	3 credits
ART 390	Sculptural Glass Casting	3 credits
ART 395	Summer Art Studio	1-3 credit(s)

ART 411	Advanced Ceramics I	3 credits
ART 412	Advanced Ceramics II	3 credits
ART 421	Life Drawing III	3 credits
ART 422	Life Drawing IV	3 credits
ART 423	Multimedia Design I	3 credits
ART 424	Typography and Advanced Projects	3 credits
ART 425	3D Graphics and Animation	3 credits
ART 431	Painting III	3 credits
ART 432	Painting IV	3 credits
ART 446	Glass Casting in the Kiln	3 credits
ART 447	Etching III	3 credits
ART 448	Etching IV	3 credits
ART 453	Sculpture IV	3 credits
ART 454	Sculpture V	3 credits
ART 495	Directed Independent Projects	1-3 credit(s)

### *Art History Track*

#### *Two-Dimensional Studio Art*

#### **(Three credits from the following:)**

ART 271	Photography Studio I	3 credits
ART 306	Color: Acrylic and Chalk	3 credits
ART 321	Life Drawing I	3 credits
ART 322	Life Drawing II	3 credits
ART 327	Advertising Design I	3 credits
ART 328	Advertising Design II	3 credits
ART 331	Painting I	3 credits
ART 332	Painting II	3 credits
ART 345	Relief Printing: Woodcut and Linoleum	3 credits
ART 347	Etching I	3 credits
ART 348	Etching II	3 credits
ART 371	Photography Studio II	3 credits
ART 372	Color Photography	3 credits
ART 373	Photographic Design and Non-Silver Process	3 credits
ART 375	Photojournalism I	3 credits
ART 376	The Photo Diary	3 credits
ART 377	Editorial Illustration	3 credits
ART 378	Photojournalism II: Picture Editing	3 credits
ART 379	Print Design	3 credits
ART 381	Computer Illustration	3 credits
ART 387	Modern Hispanic Art History	3 credits
ART 421	Life Drawing III	3 credits
ART 422	Life Drawing IV	3 credits
ART 423	Multimedia Design I	3 credits
ART 424	Typography and Advanced Projects	3 credits
ART 431	Painting III	3 credits
ART 432	Painting IV	3 credits
ART 447	Etching III	3 credits
ART 448	Etching IV	3 credits



*Three-Dimensional Studio Art*

**(Three credits from the following:)**

ART 153	Sculpture I	3 credits
ART 211	Introductory Ceramics	3 credits
ART 253	Sculpture II	3 credits
ART 311	Intermediate Ceramics I	3 credits
ART 312	Intermediate Ceramics II	3 credits
ART 353	Sculpture III	3 credits
ART 390	Sculptural Glass Casting	3 credits
ART 411	Advanced Ceramics I	3 credits
ART 412	Advanced Ceramics II	3 credits
ART 446	Glass Casting in the Kiln	3 credits
ART 453	Sculpture IV	3 credits
ART 454	Sculpture V	3 credits

Eighteen additional credits, in Art History chosen, from the list on pages 141-142. 18 credits

Six credits (or the equivalent) of a foreign language.

6 credits

***B.F.A., Major in Studio Art: 54 Credits***

*Course Requirements*

ART 105	Art Fundamentals	3 credits
ART 153	Sculpture I	3 credits
ART 211	Introductory Ceramics	3 credits
ART 219	History of Art	3 credits
ART 271	Photography Studio I	3 credits
ART 306	Color: Acrylic and Chalk	3 credits
ART 321	Life Drawing I	3 credits
ART 331	Painting I	3 credits
ART 347	Etching I	3 credits
ART 381	Computer Illustration	3 credits
ART 499	Senior Thesis	1-3 credit(s)

Six additional credits, in Art History from the list above (see B.A. Major in Art).

6 credits

Fifteen additional credits, in Studio Art chosen from the list above (see B.A. Major in Art).

15 credits

*The program offers an Art History minor and a Studio Art minor. See the Minor section of this Bulletin for details, pages 186-217.*

***Teacher Certification***

Students who think they may teach Art in secondary schools must consult with the Education Department, with the Fine and Performing Arts Department, and with the appropriate agency in the state in which they intend to teach.

***Certificate Programs in University College***

This department does not offer a certificate program in Art to students in University College.

***For all ART courses, please refer to page 301.***

***PROGRAM IN DANCE***

*The program offers a Dance minor. See page 198 for details.*

***Certificate Programs in University College***

This department does not offer a certificate program in Dance to students in University College.

***For all DAN courses, please refer to page 338.***

## PROGRAMS IN MUSIC

**Special Requirement for Admission to the Major:** Audition before the full-time music faculty during the first semester of enrollment in comprehensive musicianship, scheduled through the Coordinator of Music.

### ***B.A., Major in Music: 43 Credits***

#### *Course requirements*

MUS 204	Comprehensive Musicianship: Baroque	3 credits
MUS 206	Comprehensive Musicianship: Classical	3 credits
MUS 221	Ear Training and Sight Singing I	1 credit
MUS 222	Ear Training and Sight Singing II	1 credit
MUS 305	Comprehensive Musicianship: 19 <sup>th</sup> and 20 <sup>th</sup> Centuries	3 credits
MUS 306	Comprehensive Musicianship: Antiquity, Middle Ages and Renaissance	3 credits
MUS 321	Ear Training and Sight Singing III	1 credit
MUS 415	Conducting	3 credits
MUS 498	Senior Recital	1 credit

#### *Applied Music: Piano*

##### **(Four credits from the following\*):**

MUS 135	Beginning Class Piano	1 credit
MUS 145	Beginning Class Piano II	3 credits
MUS 235	Applied Music I	1 credit
MUS 335	Applied Music II	1 credit

#### *Applied Music: Voice*

##### **(Four credits from the following\*):**

MUS 235	Applied Music I	1 credit
MUS 271	Voice Class	3 credits
MUS 335	Applied Music II	1 credit

#### *Applied Music: Elective Instrumental Area or Voice Area*

##### **(Four credits from the following course:)**

MUS 235	Applied Music I	1 credit
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##### **(Two credits from the following course:)**

MUS 335	Applied Music II	1 credit
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##### **(Two credits from the following course:)**

MUS 435	Applied Music III	1 credit
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#### *Performance Ensemble*

##### **(Eight credits from the following:)**

MUS 208	Jazz Ensemble I	1 credit
MUS 209	Gospel Choir I	1 credit
MUS 212	University Chorus I	1 credit
MUS 218	Wind Ensemble I	1 credit
MUS 219	Javanese Gamelan I	1 credit
MUS 220	University Orchestra I	1 credit
MUS 308	Jazz Ensemble II	1 credit
MUS 309	Gospel Choir II	1 credit
MUS 312	University Chorus II	1 credit
MUS 313	Chamber Choir	1 credit
MUS 318	Wind Ensemble II	1 credit
MUS 319	Javanese Gamelan II	1 credit
MUS 320	University Orchestra II	1 credit

\* These credits may be waived if competency is established by examination.

*The program offers a Music minor. See page 211 for details.*

### ***Certificate Programs in University College***

This department does not offer a certificate program to students in University College.

***For all MUS courses, please refer to page 405.***

## PROGRAMS IN THEATRE

**Specific Requirements for Admission to the Theatre major:** Successful completion of THR 131, THR 153, and one of the following: THR 215, THR 223, THR 330 or THR 355.

### ***B.A., Major in Theatre: 36-40 Credits***

#### *Course Requirements*

*The following THR courses are required for both tracks. In addition, the student must choose one track.*

THR 131	Acting I	3 credits
THR 153	Stagecraft I	3 credits
THR 215	Makeup Design	3 credits
THR 223	Basic Television Studio Production	3 credits
THR 355	Lighting Design I	3 credits

#### **(One of the following:)**

THR 461	American Theatre History	3 credits
THR 465	Theatre History I (5 <sup>th</sup> Century, B.C.-1700)	3 credits
THR 466	Theatre History II (1700-Present)	3 credits

#### *Standard Theatre Track*

THR 154	Costume Construction	3 credits
THR 341	Play Direction and Script Analysis I	3 credits
THR 491	Production for Majors	4 credits

#### **(One of the following, not taken in the required THR courses above)**

THR 461	American Theatre History	3 credits
THR 465	Theatre History I (5 <sup>th</sup> Century, B.C.-1700)	3 credits
THR 466	Theatre History II (1700-Present)	3 credits

Nine additional theatre credits at the 200-400 level. 9 credits

**Requisite Courses:** Nine credits with the approval of the major advisor, including 6 credits from the Fine and Performing Arts Department and 3 credits of 300-level or above from other departments.

#### *Broadcast Performance and Production Track*

THR 328	Acting for the Camera	3 credits
THR 342	Art of Television Directing	3 credits
THR 458	Performance, Directing and Production Lab	3 credits

Nine additional theatre credits at the 200-400 level. 9 credits

**Requisite Courses: Broadcast Performance and Production Track:** Nine credits with the approval of the major advisor, including 6 credits from the Fine and Performing Arts Department and 3 credits of 300-level or above from other departments.

### ***B.F.A., Major in Theatre: 52 Credits***

#### *Course Requirements*

*The following THR courses are required for both tracks. In addition, the student must choose one track.*

THR 131	Acting I	3 credits
THR 153	Stagecraft I	3 credits
THR 215	Makeup Design	3 credits
THR 223	Basic TV Studio Production	3 credits
THR 355	Lighting Design I	3 credits
THR 491	Production for Majors	4 credits

#### **(One of the following:)**

THR 461	American Theatre History	3 credits
THR 465	Theatre History I (5 <sup>th</sup> Century, B.C.-1700)	3 credits
THR 466	Theatre History II (1700-Present)	3 credits

**Requisite Courses: Broadcast Performance and Production Track:** Nine credits with the approval of the major advisor, including 6 credits from the Fine and Performing Arts Department and 3 credits of 300-level or above from other departments.

### *Performance Track*

THR 154	Costume Construction	3 credits
THR 341	Play Direction and Script Analysis I	3 credits
THR 499	Senior Thesis	3 credits

**(One of the following:)**

THR 461	American Theatre History	3 credits
THR 465	Theatre History I (5 <sup>th</sup> Century, B.C.-1700)	3 credits
THR 466	Theatre History II (1700-Present)	3 credits

**(Three of the following:)**

THR 330	Acting II	3 credits
THR 333	Improvisational Theatre	3 credits
THR 432	Actor's Lab	3 credits
THR 441	Play Direction and Script Analysis II	3 credits

Nine additional theatre credits at the 200-400 level. 9 credits

**Requisite Courses: Broadcast Performance and Production Track:** Nine credits with the approval of the major advisor, including 6 credits from the Fine and Performing Arts Department and 3 credits of 300-level or above from other departments.

### *Technical Track*

THR 154	Costume Construction	3 credits
THR 341	Play Direction and Script Analysis I	3 credits
THR 493	Internship in Theatre	3 credits
THR 499	Senior Thesis	3 credits

**(One of the following, not taken in the required THR courses above:)**

THR 461	American Theatre History	3 credits
THR 465	Theatre History I (5 <sup>th</sup> Century, B.C.-1700)	3 credits
THR 466	Theatre History II (1700- Present)	3 credits

**(Two of the following:)**

THR 253	Drafting I	3 credits
THR 351	Scenic Design I	3 credits
THR 357	Costume Design I	3 credits

Nine additional theatre credits at the 200-400 level. 9 credits

**Requisite Courses: Broadcast Performance and Production Track:** Nine credits with the approval of the major advisor, including 6 credits from the Fine and Performing Arts Department and 3 credits of 300-level or above from other departments.

*The program offers a Theatre minor. See page 217 for details.*

### ***Teacher Certification***

Students who think they may teach Drama in secondary schools must consult with the Education Department, with the Fine and Performing Arts Department, and with the appropriate agency in the state in which they intend to teach.

### ***Certificate Programs in University College***

This department does not offer a certificate program in Theatre to students in University College.

***For all THR courses, please refer to page 459.***

# GRAPHIC DESIGN

Program Director: Joel M. Davies

Program Office: Hitchcock Communication Arts Building, Room 203A

**Program Description:** The Graphic Design program at Creighton uses a collaborative, interdisciplinary approach to teach the communication, aesthetic and technical aspects of successful design. The program focuses on practical application of design to clearly and effectively communicate content in convergent media.

**Web Contact/Information:** Additional information about this program may be found at <http://jmc.creighton.edu>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

## PROGRAMS IN GRAPHIC DESIGN

**Specific Requirements for Admission to the Graphic Design Major:** none

**B. A., Major in Graphic Design: 42 Credits**

### *Course Requirements*

#### **(All of the following:)**

ART 105	Art Fundamentals	3 credits
ART 153	Sculpture I	3 credits
ART 219	History of Art	3 credits
ART 379	Print Design	3 credits
ART 381	Computer Illustration	3 credits
ART 382	Web Design	3 credits
ART 423	Multimedia Design I	3 credits

#### **(One of the following:)**

ART 271	Photography Studio I	3 credits
ART 375	Photojournalism I	3 credits

### *Writing/Theory/History*

JMC 361	Technical Public Relations Writing	3 credits
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#### **(One of the following:)**

JMC 313	Principles of Advertising	3 credits
JMC 323	Principles of Public Relations	3 credits
JMC 347	Advertising Campaigns	3 credits

#### **(One of the following:)**

ART 319	Art International: The Art Culture	3 credits
ART 354	Greek Art and Archaeology	3 credits
ART 355	Greek Art and Archaeology	3 credits
ART 360	Art of the Middle Ages	3 credits
ART 361	Art of the Renaissance in Europe	3 credits
ART 362	Early Christian Art and Archaeology	3 credits
ART 363	Baroque Art	3 credits
ART 364	History of Architecture	3 credits
ART 365	Greek Art	3 credits
ART 366	Etruscan and Roman Art	3 credits
ART 367	Nineteenth Century Art	3 credits
ART 368	Survey of American Art	3 credits
ART 369	Modern European Art, 1900-1945	3 credits
ART 380	History and Criticism of Cinema	3 credits
ART 383	History and Aesthetics of Photography	3 credits
ART 465	Contemporary Art	3 credits
ART 467	History of The Art of Spain and Her Colonies	3 credits
ART 468	Native American Art	3 credits
PHL 340	Aesthetics	3 credits

*Upper-Level Visual Arts*

**(Six credits from the following:)**

ART 211	Introductory Ceramics	3 credits
ART 253	Sculpture II	3 credits
ART 271	Photography Studio I	3 credits
ART 306	Color: Acrylic and Chalk	3 credits
ART 311	Intermediate Ceramics I	3 credits
ART 312	Intermediate Ceramics II	3 credits
ART 321	Life Drawing I	3 credits
ART 322	Life Drawing II	3 credits
ART 327	Advertising Design I	3 credits
ART 328	Advertising Design II	3 credits
ART 331	Painting I	3 credits
ART 332	Painting II	3 credits
ART 345	Relief Printing: Woodcut and Linoleum	3 credits
ART 347	Etching I	3 credits
ART 348	Etching II	3 credits
ART 353	Sculpture III	3 credits
ART 371	Photography Studio II	3 credits
ART 372	Color Photography	3 credits
ART 373	Photographic Design and Non-Silver Process	3 credits
ART 375	Photojournalism I	3 credits
ART 376	The Photo Diary	3 credits
ART 377	Editorial Illustration	3 credits
ART 378	Photojournalism II: Picture Editing	3 credits
ART 390	Sculptural Glass Casting	3 credits
ART 397	Summer Art History Seminar	1-3 credit(s)
ART 411	Advanced Ceramics I	3 credits
ART 412	Advanced Ceramics II	3 credits
ART 421	Life Drawing III	3 credits
ART 422	Life Drawing IV	3 credits
ART 424	Typography and Advanced Projects	3 credits
ART 425	3D Graphics and Animation	3 credits
ART 431	Painting III	3 credits
ART 432	Painting IV	3 credits
ART 446	Glass Casting in the Kiln	3 credits
ART 447	Etching III	3 credits
ART 448	Etching IV	3 credits
ART 453	Sculpture IV	3 credits
ART 454	Sculpture V	3 credits

*Independent Study or Internship*

**(Three credits from the following:)**

JMC 455	Projects in Communications	1-3 credit(s)
JMC 479	Visual Communications Internship	1-3 credit(s)
JMC 487	Advertising Internship	1-3 credit(s)
ART 497	Directed Independent Research	1-2 credit(s)

## ***B. F. A., Major in Graphic Design: 54 Credits***

### *Course Requirements*

#### **(All of the following:)**

ART 105	Art Fundamentals	3 credits
ART 153	Sculpture I	3 credits
ART 219	History of Art	3 credits
ART 379	Print Design	3 credits
ART 381	Computer Illustration	3 credits
ART 382	Web Design	3 credits
ART 423	Multimedia Design I	3 credits
ART 499	Senior Thesis	3 credit(s)

#### **(One of the following:)**

ART 271	Photography Studio I	3 credits
ART 375	Photojournalism I	3 credits

### *Writing/Theory/History*

#### **(All of the following:)**

JMC 313	Principles of Advertising	3 credits
JMC 347	Advertising Campaigns	3 credits
JMC 361	Technical Public Relations Writing	3 credits

#### **(Two of the following:)**

ART 319	Art International: The Art Culture	3 credits
ART 355	Greek Art and Archaeology	3 credits
ART 360	Art of the Middle Ages	3 credits
ART 361	Art of the Renaissance in Europe	3 credits
ART 362	Early Christian Art and Archaeology	3 credits
ART 363	Baroque Art	3 credits
ART 364	History of Architecture	3 credits
ART 365	Greek Art	3 credits
ART 366	Etruscan and Roman Art	3 credits
ART 367	Nineteenth Century Art	3 credits
ART 368	Survey of American Art	3 credits
ART 369	Modern European Art, 1900-1945	3 credits
ART 383	History and Aesthetics of Photography	3 credits
ART 465	Contemporary Art	3 credits
ART 467	History of The Art of Spain and Her Colonies	3 credits
ART 468	Native American Art	3 credits
JMC 424	Typography and Advanced Projects	3 credits
PHL 340	Aesthetics	3 credits

**Upper-Level Visual Arts:** Nine credits in Studio Arts courses chosen in consultation with major advisor.

ART 211	Introductory Ceramics	3 credits
ART 253	Sculpture II	3 credits
ART 271	Photography Studio I	3 credits
ART 306	Color: Acrylic and Chalk	3 credits
ART 311	Intermediate Ceramics I	3 credits
ART 312	Intermediate Ceramics II	3 credits
ART 321	Life Drawing I	3 credits
ART 322	Life Drawing II	3 credits
ART 327	Advertising Design I	3 credits
ART 328	Advertising Design II	3 credits
ART 331	Painting I	3 credits
ART 332	Painting II	3 credits
ART 345	Relief Printing: Woodcut and Linoleum	3 credits
ART 347	Etching I	3 credits
ART 348	Etching II	3 credits
ART 353	Sculpture III	3 credits

ART 371	Photography Studio II	3 credits
ART 372	Color Photography	3 credits
ART 373	Photographic Design and Non-Silver Process	3 credits
ART 375	Photojournalism I	3 credits
ART 376	The Photo Diary	3 credits
ART 377	Editorial Illustration	3 credits
ART 378	Photojournalism II: Picture Editing	3 credits
ART 390	Sculptural Glass Casting	3 credits
ART 395	Summer Art History Seminar	1-3 credit(s)
ART 411	Advanced Ceramics I	3 credits
ART 412	Advanced Ceramics II	3 credits
ART 421	Life Drawing III	3 credits
ART 422	Life Drawing IV	3 credits
ART 424	Typography and Advanced Projects	3 credits
ART 425	3D Graphics and Animation	3 credits
ART 431	Painting III	3 credits
ART 432	Painting IV	3 credits
ART 446	Glass Casting in the Kiln	3 credits
ART 447	Etching III	3 credits
ART 448	Etching IV	3 credits
ART 453	Sculpture IV	3 credits
ART 454	Sculpture V	3 credits

*Independent Study or Internship*

**(Three credits from the following:)**

JMC 455	Projects in Communication	1-3 credit(s)
JMC 479	Visual Communications Internship	1-3 credit(s)
JMC 487	Advertising Internship	1-3 credit(s)
ART 497	Directed Independent Research	1-2 credit(s)

Students will be required to complete the Sophomore and Junior Portfolio Reviews. See the current Visual Arts Information Sheet available from the Director of the Program.

*The program offers a Interactive Web Design minor. See page 207 for details.*





# HEALTH ADMINISTRATION AND POLICY

Program Director: Judith Kissell

Program Office: Center for Health, Policy and Ethics 105

**Program Description:** The Health Administration and Policy Program is an interdisciplinary program designed to provide the undergraduate student with a broad understanding of health care management and an awareness of the key issues facing the health care world. This program is designed to provide students with the opportunity to build a solid understanding of health care institutions, management processes and public policy and social issues.

**Web Contact/Information:** Additional information about this program may be found at <http://puffin.creighton.edu/HAP/index.htm>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

## PROGRAMS IN HEALTH ADMINISTRATION AND POLICY

**Specific Requirements for Admission to the Health Administration and Policy Major:**  
None.

### ***B. S., Major in Health Administration and Policy: 45 Credits***

#### *Course Requirements*

#### **(All of the following:)**

HAP 200	Introduction to Health Care Administration	3 credits
HAP 212	Quantitative Methods in the Social Sciences	3 credits
HAP 215	Sociology of Health Care	3 credits
HAP 310	Health Finance and Budgeting	3 credits
HAP 334	Public Policy and Health Care	3 credits
HAP 457	Biomedical Ethics	3 credits
HAP 485	Internship in Health Administration and Policy	3 credits
HAP 515	Law and Health Systems	3 credits
ACC 201	Introduction to Financial Accounting	3 credits
PLS 331	Managing the Public and Non-Profit Sectors	3 credits

#### **(One of the following:)**

COM 314	Managerial Communication	3 credits
MGT 301	Managerial Process and Organizational Behavior	3 credits

#### **(Two of the following covering distinctly different management topics\*):**

COM 320	Leadership: Theories, Styles, and Skills	3 credits
COM 360	Organizational Communication Theories	3 credits
COM 370	Human Resource Administration	3 credits
COM 464	Organizational Training and Development	3 credits
HAP 390	Health Communication	3 credits
MGT 351	Personnel/Human Resources Management	3 credits
MIS 253	Management and Information Systems	3 credits
MKT 319	Principles of Marketing	3 credits
Six additional credits between HAP 400 and HAP 440.		6 credits

\*or other courses with the consent of the Program Director.

*The program offers a Health Administration and Policy minor. See page 204 for details.*

### ***Certificate Programs in University College***

This program offers one certificate program to students in University College: *Health Administration and Policy Certificate*. See the description of this certificate on page 275 in the University College section of the Bulletin.

***For all HAP courses, please refer to page 375.***

# HISTORY

Chair: Elizabeth B. Elliot-Meisel

Department Office: Administration Building, Room 330A

Associate Professors: J. Calvert, E. Dugan, E. Elliot-Meisel, R. Super, A. Welch;  
Assistant Professors: S. Eastman, H. Fryer, C. Gerteis, T. Leavelle, B. McEwen.

**Department Description:** The Department of History provides students with historical perspective and insight into the issues, events, ideas, and values that constitute the human experience. This includes the study of a variety of societies and cultures, and teaching the essential analytic research and communication skills necessary to stimulate creative and critical thinking, and provide an ethical context for dealing with an increasingly complex world.

**Web Contact/Information:** Additional information about this department may be found at <http://puffin.creighton.edu/hist/index.htm>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

## PROGRAMS IN HISTORY

**Specific Requirements for Admission to the History Major:** Successful completion of HIS 101.

### ***B. A., Major in History: 36 Credits***

#### *Course Requirements*

#### **(All of the following:)**

HIS 101	The Modern Western World	3 credits
HIS 300	Historiography	3 credits
HIS 311	United States History to 1877	3 credits
HIS 312	United States History Since 1877	3 credits
HIS 400	Research Methods in History	3 credits
HIS 500	Senior Seminar	3 credits

#### **(One of the following:)**

HIS 103	The Asian World	3 credits
HIS 104	The Latin American World	3 credits
HIS 106	The African World	3 credits
HIS 107	The Middle Eastern World	3 credits
HIS 108	The Native American World	3 credits
Fifteen additional credits of HIS 300 level or above.		15 credits

While the student may concentrate in any area of history, he/she is encouraged to take a minimum of 6 credits of non-United States history.

Knowledge of a modern foreign language is strongly recommended for all history majors. Those majors specializing in International Relations (see next page) or preparing for graduate school should go beyond the College of Arts and Sciences requirement for graduation in their principal foreign language and/or begin a second language.

## *International Relations Specialization*

*As an alternative to the 15 additional credits of 300 level or above, students may specialize in this area by taking a minimum of 15 credits selected from:*

**(All of the following:)**

HIS 319	Eastern Europe: 1918-1989	3 credits
HIS 347	The Arab-Israeli Conflict: Struggle for Holy Land	3 credits
HIS 351	Comparative American Character	3 credits
HIS 371	Mexico and the Mexican Revolution	3 credits
HIS 375	The United States and Latin America	3 credits
HIS 388	Origins of Modern Africa	3 credits
HIS 417	Europe Since 1919	3 credits
HIS 484	Nationalist Movements in Colonial Africa	3 credits
HIS 489	Southern Africa: The Politics of Race	3 credits
HIS 540	Contemporary International Relations	3 credits
HIS 547	Contemporary Europe Since 1945	3 credits
HIS 548	Russian History: 1905 to the Present	3 credits
HIS 562	Foreign Relations of the U.S., 1898-1945	3 credits
HIS 563	Foreign Relations of the U.S. Since 1945	3 credits
HIS 565	The United States and Canada	3 credits
HIS 566	U.S. and the Middle East since WWII	3 credits
HIS 567	Change and Revolution in the Modern Middle East	3 credits
HIS 577	Cuba under Castro	3 credits

*The program offers a History minor and an International Relations minor. See the Minor section of this Bulletin for details, pages 186-217.*

### ***Teacher Certification***

Students who think they may teach History in secondary schools must consult with the Education Department, with the History Department, and with the appropriate agency in the state in which they intend to teach.

### ***Certificate Programs in University College***

This department does not offer a certificate program to students in University College.

***For all HIS courses, please refer to page 377.***

## ***HONORS PROGRAM***

Program Director: Geoffrey W. Bakewell, Michael W. Barry Professor;

Assistant Director: Isabelle Cherney

Program Office: Hixson-Lied Science Building, G6

**Program Description:** The College of Arts and Sciences recently approved a new curriculum for its Honors Program and has fully implemented that curriculum for the first time in the 2005-2006 academic year.

Rooted in the university's Christian, Catholic, and Jesuit traditions, the new Honors Program relies on the belief, articulated by Pope John Paul II, that "the united endeavor of intelligence and faith will enable people to come to the full measure of their humanity." Its goal is to foster a community committed to the ongoing education of students and faculty members as fellow seekers for truth. The program seeks individuals of all faiths and backgrounds who are intelligent, well prepared academically, highly motivated, and academically adventurous. The curriculum then immerses these students in an academically rigorous but flexible program of study guided by a faculty mentor who is charged with paying special attention to the personal dimension of learning. The program ultimately understands itself as a fellowship of inquiry whose individual members have dedicated themselves without reserve to love of learning.

The new curriculum involves the following key elements:

**Foundational Sequence.** Honors students take three courses (9 credits) in their first three semesters that introduce them to the Christian, Catholic, and Jesuit intellectual traditions that lie at the heart of a Creighton education within the context of Western civilization and of the pluralistic world we inhabit.

**Sources and Methods Courses.** Honors students take five courses (15-20 credits) that induce them to think critically about information, assumptions, and arguments found in multiple forms of academic and cultural discourse. Several such courses are offered each semester in a range of academic disciplines.

**Honors Senior Perspectives Course.** Honors students are required to take a Senior Perspectives (SRP) course, and may select any such course offered in the College. Each year, however, one SRP is designed for, and offered exclusively to, Honors students.

**Senior Independent Research Project.** Honors students are required to demonstrate their capacity for advanced, self-directed, individual work by completing an approved project within their major(s). They undertake these projects under the guidance of assigned faculty mentors and present their findings during a campus-wide “Honors Day.”

**Mentoring and Learning Plan.** All of the above elements are incorporated into Learning Plans, developed individually by Honors students in close consultation with assigned faculty mentors. The mentoring process shapes Honors students into confident, independent learners who take active roles in their own education, and expect the most of themselves. Through their individualized Learning Plans, Honors students integrate their backgrounds and interests with the strengths and Mission of the University and the College. As a general principle, these four-year Learning Plans include courses distributed among the areas of fine arts, foreign languages, history, literature, mathematics, natural science, philosophy, social science, and theology. Students’ Learning Plans are reviewed and approved by their faculty mentors and by the Program Director. While Honors students are expected, therefore, to excel in all areas that characterize a Creighton undergraduate education, fulfillment of these goals is determined on an individual basis rather than by the more structured curricular requirements that apply to other students.

Admission to the Honors Program is by invitation from Honors Program Advisory Board (or, the Honors Program Director or the Dean). Invitations to the Honors Program are sent to those students whose applications to the Creighton College of Arts and Sciences suggest that they would be strong candidates for admission to the Honors Program.

**Good Standing.** Once admitted to the Honors Program, students must continue to meet the following standards in order to remain in good standing in the program:

1. They must make acceptable progress towards fulfilling the requirements for an Honors Degree. Ordinarily, this means that they should have completed at least six (6) credit hours of Honors courses by the end of their freshman year, 12 by the end of their sophomore year, and 18 by the end of their junior year.
2. They must maintain a GPA of at least 3.3 for all courses taken at Creighton.
3. They must maintain a GPA of at least 3.0 for all Honors courses taken at Creighton. (This Honors-specific GPA will not be computed until a student has completed at least two Honors courses.)

Honors students found not to be in good standing will be notified and given one semester to remedy the situation. Failure to do so may result in their dismissal from the Honors Program.

**Limited Tuition Waiver.** Honors students in good standing are not charged tuition above and beyond the standard full-time tuition for a given semester, regardless of the number of credit hours they are taking. Their eligibility to register for more than 18 hours is still subject to Dean’s Office approval in the same way as other students’.

*For all HRS courses, please refer to page 387.*

# JOURNALISM AND MASS COMMUNICATION

Chair: Eileen M. Wirth

Department Office: Hitchcock Communication Arts Building, Room 209

Professor: D. Doll, S.J., E. M. Wirth; Professor Emeritus: D. Haberman.

Associate Professors: T. Guthrie, J. Maciejewski, M.C. Zuegner;

Assistant Professors: J. Davies, B. Hough.

**Department Description:** The Department of Journalism and Mass Communication prepares students for professional careers in a wide range of mass media fields including news, public relations, advertising, graphic design and photography. Courses emphasize development of strong writing and visual communications skills. Students gain experience through internships, *The Creightonian* newspaper, Bluejay yearbook and student professional organizations.

**Web Contact/Information:** Additional information about this department may be found at <http://jmc.creighton.edu>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

## PROGRAMS IN JOURNALISM AND MASS COMMUNICATION

**Specific Requirements for Admission to the Journalism Major:** At least a "C" in the prerequisite courses: JMC 111.

### **B. A., Major in Journalism: 29-35 Credits**

#### *Course Requirements*

*The following JMC courses are required for all tracks. In addition, the student must choose one track.*

#### **(All of the following:)**

JMC 111	Introduction to Mass Communication	2 credits
JMC 219	News Reporting	3 credits
JMC 335	History of American Mass Media	3 credits
JMC 379	Print Design	3 credits
JMC 382	Web Design	3 credits
JMC 438	Media Ethics	3 credits
JMC 529	Law of Mass Communication	3 credits

#### *Advertising Track*

#### **(All of the following:)**

JMC 313	Principles of Advertising	3 credits
JMC 331	Editing	3 credits
JMC 347	Advertising Campaigns	3 credits
JMC 440	Media Research	3 credits
JMC 433	Advertising Copy Writing	3 credits

#### *News Track*

#### **(All of the following:)**

JMC 331	Editing	3 credits
JMC 375	Photojournalism I	3 credits
JMC 477	Advanced News Production	1-3 credits

#### **(One of the following three writing classes:)**

JMC 321	Advanced Reporting	3 credits
JMC 322	Feature Writing	3 credits
JMC 326	Sportswriting	3 credits

#### *Photo Journalism Track*

#### **(All of the following:)**

JMC 325	Digital Video Photography	3 credits
JMC 375	Photojournalism I	3 credits
JMC 378	Photojournalism II: Picture Editing	3 credits
JMC 381	Computer Illustration	3 credits

### *Public Relations Track*

**(All of the following:)**

JMC 323	Principles of Public Relations	3 credits
JMC 331	Editing	3 credits
JMC 339	Case Studies in Public Relations	3 credits
JMC 341	Public Relations Writing	3 credits
JMC 440	Media Research	3 credits

### *Visual Communications Track*

**(All of the following:)**

JMC 375	Photojournalism 1	3 credits
JMC 381	Computer Illustration	3 credits
JMC 423	Interactive Multimedia Design	3 credits
JMC 424	Typography and Advanced Projects	3 credits

### ***B.A., Major in Graphic Design***

See the description for this interdisciplinary major, offered through the Department of Fine and Performing Art and the Department of Journalism and Mass Communication, on page 148).

*The program offers a Interactive Web Design minor. See page 207 for details.*

### ***Teacher Certification***

Students who think they may teach Journalism in secondary schools must consult with the Education Department, with the Journalism and Mass Communication Department, and with the appropriate agency in the state in which they intend to teach.

### ***Certificate Programs in University College***

This department does not offer a certificate program in Journalism to students in University College.

***For all JMC courses, please refer to page 390.***

## ***JUSTICE AND PEACE STUDIES***

Program Director: Roger Bergman

Program Office: Administration Building, Room 425A

**Program Description:** The Justice and Peace Studies Program offers a minor and, with the Department of Sociology and Anthropology, a major in Justice and Society (see the following section). Both minor and major consist of a multidisciplinary series of courses integrating community service, analysis, and reflection in the context of a faith that does justice and seeks a more peaceful world.

**Web Contact/Information:** Additional information about this program may be found at <http://puffin.creighton.edu/ccas/JPSFolder/jps.htm>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

### ***PROGRAM IN JUSTICE AND PEACE STUDIES***

*The program offers a Justice and Peace Studies minor. See page 208 for details.*

***For all JPS courses, please refer to page 390.***

# JUSTICE AND SOCIETY

Program Director: Roger Bergman  
Program Office: Administration Building, Room 425A

**Program Description:** The major in Justice and Society combines requirements for the minors in Sociology and Anthropology and Justice and Peace Studies, with support from other departments. Most JAS courses are crosslisted from other departments and programs. Consult those listings for course descriptions. The JAS major, which may be completed with a Sociology, Anthropology, or Criminal Justice focus, requires 37 credit hours.

**Web Contact/Information:** Additional information about this program may be found at <http://puffin.creighton.edu/ccas/JPSFolder/jps.htm>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

## PROGRAM IN JUSTICE AND SOCIETY

**Specific Requirements for Admission to the Justice and Society Major:** Completion of SOC 101, ANT 111 or NAS 101 with a grade of "C" or better, plus 3 credits in a Sociology or Anthropology course with a grade of "C" or better.

### B. A. Major in Justice and Society: 37 Credits

#### Course Requirements

#### Sociology/Anthropology

#### (All of the following:)

SOC 212	Quantitative Research Methods in the Social Sciences	3 credits
SOC 214	Statistics for the Social Sciences	4 credits
SOC 301	Social and Cultural Theory	3 credits

#### Justice and Peace Studies

#### (All of the following:)

JPS 360	Social Justice in Theory and Practice	3 credits
JPS 365	Faith and Moral Development	3 credits
JPS 499	Senior Seminar	3 credits
JPS 565	Catholic Social Teaching	3 credits
JPS 588	Christian Ethics of War and Peace	3 credits

#### Elective courses

#### (One of the following:)

ANT 111	Human Variation	3 credits
SOC 101	Self and Society	3 credits

Six additional elective credits in SOC and/or ANT chosen in consultation with the JAS Director or JAS Advisor, plus one of the following:

ECO 408	Current Issues in Social Econ. and Political Economy	3 credits
PHL 348	Philosophy of Feminism	3 credits
PHL 354	Environmental Ethics	3 credits
PHL 358	Social and Political Philosophy	3 credits
PHL 451	Social Justice: Theory and Practice	3 credits
PHL 453	Ethics and Public Policy	3 credits
PHL 455	Health Care, Society and Values	3 credits
PLS 319	Politics of the Developing Areas	3 credits
PLS 327	Minority Politics in America	3 credits
PLS 333	Environmental Politics and Policy	3 credits
PLS 334	Public Policy and Health Care	3 credits
PLS 337	Constitutional Law	3 credits
PLS 339	Public Policy and Poverty in the U.S.	3 credits
PLS 372	Equality, Minorities, and Public Policy	3 credits
PLS 435	Global Poverty and Development	3 credits
PLS 481	Poverty, Development, and Public Policy	3 credits
PSY 323	Social Psychology	3 credits

PSY 428	Multicultural Issues in Psychology	3 credits
SWK 261	Introduction to Social Welfare	3 credits
SWK 300	Economics, Politics and Social Welfare	3 credits
SWK 365	Issues of Native American Experience	3 credits
SWK 366	The Status of Women: Progress and Process	3 credits
SWK 401	Social Welfare Policy	3 credits

## MATHEMATICS

Chair: John Mordeson  
 Department Office: Old Gym, Room 230

Professors: S. Cheng, D. Malik, J. Mordeson; Professor Emeritus: D. Fuller;  
 Associate Professors: J. Carlson, R. Crist, N. Fong, L. Nielsen.

**Department Description:** Mathematics is the study of quantity and space and the symbolism associated with them.

**Web Contact/Information:** Additional information about this department may be found at <http://mth.creighton.edu>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

### PROGRAMS IN MATHEMATICS

**Specific Requirements for Admission to the Mathematics Major:** Students desiring to major in mathematics should apply to the department and be assigned a major advisor after completing MTH 245 or MTH 246 or its equivalent.

#### ***B.S., Major in Mathematics: 22 Credits***

*Course Requirements*

**(All of the following:)**

MTH 310	Fundamentals of Mathematics	3 credits
MTH 347	Calculus III	4 credits
MTH 529	Linear Algebra	3 credits
MTH 545	Differential Equations	3 credits
MTH 581	Modern Algebra I	3 credits
MTH 591	Analysis I	3 credits
	Three additional 500-level credits arranged with department approval.	3 credits

**Requisite Courses:** Twelve 300-500-level credits (approved by the major advisor) in one or more departments (which could include mathematics).

#### ***B.S. Mth., Major in Mathematics: 22-34 Credits***

*The B.S.Mth. degree is recommended to students wishing to pursue graduate study in mathematics.*

##### *Pure Mathematics Track*

**(All of the following:)**

MTH 310	Fundamentals of Mathematics	3 credits
MTH 347	Calculus III	4 credits
MTH 529	Linear Algebra	3 credits
MTH 545	Differential Equations	3 credits
MTH 581	Modern Algebra I	3 credits
MTH 591	Analysis I	3 credits

Fifteen additional 400-500-level credits in mathematics. 15 credits

Up to six 300-500-level computer science or statistics credits may be substituted for 500-level mathematics courses.



### *Medical Mathematics Track*

**(All of the following:)**

MTH 310	Fundamentals of Mathematics	3 credits
MTH 347	Calculus III	4 credits
MTH 513	Probability and Statistics in the Health Sciences	3 credits
MTH 529	Linear Algebra	3 credits
MTH 545	Differential Equations	3 credits
MTH 547	Mathematics in Medicine and the Life Sciences	3 credits
MTH 583	Fuzzy Mathematics: Applications in Health Sciences	3 credits

**Requisite Courses:** Twelve 300-500-level credits (approved by the major advisor) in one or more departments (which could include mathematics). The following courses are highly recommended: BIO 317, CHM 341, CHM 443.

*The program offers a Mathematics minor. See page 210 for details.*

### **Teacher Certification**

Students who think they may teach Mathematics must consult with the Education Department, with the Mathematics Department, and with the appropriate agency in the state in which they intend to teach.

### **Certificate Program in University College**

This department offers one certificate program to students in University College. See the description for this certificate on page 276 in the University College section of the Bulletin.

**For all MTH courses, please refer to page 400.**

## **MILITARY SCIENCE**

Program Director: Mark Turner

Program Office: Military Science Building, Rm. 110

Professor: M. Turner;

Assistant Professors: W. Benda, T. Castellano, M. Davis, M. Powell, E. Hendrickson, M. Johnson, D. Murphy, T. Donovan.

**Program Description:** The Reserve Officer Training Corps (ROTC) was authorized by the War Department and established at Creighton University in 1919. The program is a cooperative effort contractually agreed to by the Army and Creighton University as a means of providing junior officer leadership. It ensures that men and women educated in a broad spectrum of American institutions of higher learning are commissioned annually in the Army officer corps. Creighton's Military Science Program is an elective two-year or four-year program.

**Web/Contact Information:** Additional information may be found at <http://www.creighton.edu/armyrotc>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes: <http://www.creighton.edu/Registrar>.

### **PROGRAMS IN MILITARY SCIENCE**

**Special Requirements for Admission to the Military Science program:** Department permission required to enter the advanced course.

#### **Army ROTC Military Science Course Requirements (21-22 Credits)**

#### **Army ROTC Military Science Basic Courses**

##### **Nursing Students Only**

**(All of the following:)**

MIL 103	Foundation of Officership and Basic Leadership	2 credits
MIL 213	Military Science and Leadership	2 credits

##### **All other students**

**(All of the following:)**

*MIL I year*

MIL 100	Leadership Laboratory	0 credit
MIL 101	Introduction to Officer Professionalism I	1 credit
MIL 102	Introduction to Officer Professionalism II	1 credit

<i>MIL II year</i>		
MIL 200	Leadership Laboratory II	0 credits
MIL 211	Basic Individual Leadership Techniques	2 credit
MIL 212	Advance Individual Leadership Techniques	2 credit
<b>Army ROTC Military Science Advanced Courses</b>		
<b>Nursing Students Only</b>		
MIL 352	ROTC Nurse Summer Training	3 credits
<b>All students</b>		
<b>(All of the following:)</b>		
MIL 300	Leadership Laboratory III	0 credits
MIL 301	Fundamentals of Small Unit Tactics and Leadership	3 credits
MIL 302	Advanced Small Unit Leadership and Tactics	3 credits
MIL 351	Leadership Development Assessment Course	3 credits
MIL 400	Leadership Laboratory I	1 credits
MIL 401	Military Professionalism and Ethics	2 credits
MIL 402	Military Management Seminar	2 credits
<b>(Optional Courses:)</b>		
MIL 202	United States Military History	3 credits
MIL 207	Fundamentals of Army Ranger Training	2 credits
MIL 493	Directed Independent Readings	1-3 credits
MIL 494	Directed Independent Study and Seminar I	1-3 credits
MIL 495	Directed Independent Study and Seminar II	1-3 credits

*The program offers a Military Science minor. See page 210 for details.*

***For all MIL courses, please refer to page 403.***

## ***MODERN LANGUAGES AND LITERATURES***

Chair: Lucille Roy-Hewitson

Department Office: Humanities Center, Room 216

Professor : L. Roy-Hewitson; Professor Emeriti: D. Gibbs, A. Gommermann;

Associate Professors: T. Coffey, R. Recio, E. Rodrigo, G. Romero-Downing, I. Santiago-Stommes, L. Vanchena;

Assistant Professors: O. Böhlke, F. Conrad, D. Vanderboegh, M. Warren.

**Department Description:** The Department provides for its major students in French, German and Spanish a program of study conducive to developing competence in the spoken and written language, and a broad and deep knowledge of the literature and culture of the target languages. The Department provides for its students in Italian, Japanese and Russian a program of study conducive to developing competence in the spoken and written language with insights into the culture of the target languages.

**Web Contact/Information:** Additional information about this department may be found at <http://www.creighton.edu/ml>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

## *PROGRAM IN FRENCH*

**Specific Requirements for Admission to the French Major:** Successful completion of FRN 202 or equivalent.

### ***B. A., Major in French: 18 Credits***

#### *Course Requirements*

**(Eighteen credits from the following\*):**

FRN 311	Advanced French I	3 credits
FRN 312	Advanced French II	3 credits
FRN 314	Business French Communication	3 credits
FRN 325	Introduction to Literary Analysis	3 credits
FRN 327	French Literature Before the French Revolution	3 credits
FRN 328	French Literature After the French Revolution	3 credits
FRN 335	French Practicum	1 credit
FRN 411	Advanced Spoken French	3 credits
FRN 412	Advanced Written French	3 credits
FRN 493	Directed Independent Readings	1-3 credits
FRN 522	French Civilization Before the French Revolution	3 credits
FRN 524	French Civilization After the French Revolution	3 credits
FRN 525	Paris, Ville de Monde (Paris City of the World)	3 credits
FRN 540	French Literature: Middle Ages	3 credits
FRN 542	French Literature: Renaissance	3 credits
FRN 543	French Literature: 17 <sup>th</sup> Century	3 credits
FRN 544	French Literature: 18 <sup>th</sup> Century	3 credits
FRN 548	French Literature: 19 <sup>th</sup> Century	3 credits
FRN 549	French Literature: 20 <sup>th</sup> Century	3 credits
FRN 551	Women Writers in French and Francophone Literature	3 credits
FRN 557	French Poetry	3 credits
FRN 564	History of the French Language	3 credits
FRN 572	French Cinema	3 credits

\*Or other 300-500 level FRN courses chosen in consultation with the major advisor.

*The program offers a French minor. See page 202 for details.*

### ***Teacher Certification***

Students who think they may teach French in secondary schools must consult with the Education Department, with the Modern Languages and Literatures Department, and with the appropriate agency in the state in which they intend to teach.

### ***Certificate Programs in University College***

This department does not offer a certificate program in French to students in University College.

***For all FRN courses, please refer to page 370.***

## *PROGRAMS IN GERMAN*

**Specific Requirements for Admission to the German Major:** Successful completion of GER 202 or equivalent.

### ***B. A., Major in German: 21 Credits***

#### *Course Requirements*

**(Twenty-one credits from the following\*):**

GER 311	Advanced German I	3 credits
GER 312	Advanced German II	3 credits
GER 317	German Lit. and Civil. I: From the Middle Ages-1871	3 credits
GER 318	German Lit. and Civil. II: From 1871 to the Present	3 credits
GER 321	German for Business and Economics	3 credits
GER 328	Studies in Contemp. German Culture: The Last 25 Years	3 credits
GER 335	German Practicum	1 credit
GER 406	German Immigrant Culture in the United States	3 credits
GER 411	Introduction to German Literature	3 credits
GER 493	Directed Independent Readings	1-3 credits
GER 495	Directed Independent Study	1-3 credits
GER 497	Directed Independent Research	3 credits
GER 525	The New Berlin	3 credits
GER 527	German Literature of the 19 <sup>th</sup> Century	3 credits
GER 529	Contemporary German Literature	3 credits
GER 531	German Romanticism: Literature, Art and Music	3 credits
GER 541	German Narrative Prose	3 credits
GER 543	German Drama	3 credits
GER 545	German "Novelle": 19 <sup>th</sup> and 20 <sup>th</sup> Centuries	3 credits
GER 568	The Multiplicity of German Culture	3 credits
GER 572	Reading German Films	3 credits

\*Or other 300-500 level GER courses chosen in consultation with the major advisor.

*The program offers a German minor. See page 203 for details.*

### ***Teacher Certification***

Students who think they may teach German in secondary schools must consult with the Education Department, with the Modern Languages and Literatures Department, and with the appropriate agency in the state in which they intend to teach.

### ***Certificate Programs in University College***

This department does not offer a certificate program in German to students in University College.

***For all GER courses, please refer to page 372.***

## *PROGRAMS IN SPANISH*

**Specific Requirements for Admission to the Spanish Major:** Successful completion of SPN 202 or equivalent.

### ***B. A., Major in Spanish: 21 Credits***

#### *Course Requirements*

#### **(Twenty-one credits from the following\*:)**

SPN 301	Spanish for Spanish Speakers	3 credits
SPN 302	Spanish for Spanish Speakers II	3 credits
SPN 311	Advanced Spanish I	3 credits
SPN 312	Advanced Spanish II	3 credits
SPN 313	Advanced Spanish Conversation	3 credits
SPN 314	Communicating in Business	3 credits
SPN 321	Civilization and Culture of Spain	3 credits
SPN 322	Latin-American Culture and Civilization	3 credits
SPN 323	Survey of Latin-American Literature	3 credits
SPN 325	Introduction to Literary Analysis	3 credits
SPN 327	Survey of Peninsular Literature	3 credits
SPN 331	Medical Spanish I	3 credits
SPN 332	Medical Spanish II	3 credits
SPN 335	French Practicum	1 credit
SPN 411	Adv. Spanish Grammar, Translation & Composition I	3 credits
SPN 412	Adv. Spanish Grammar, Translation & Composition II	3 credits
SPN 423	Latin-American Feminine Voices	3 credits
SPN 493	Directed Independent Readings	1-3 credits
SPN 496	Independent Study in the Dominican Republic	3 credits
SPN 541	Medieval Spanish Literature	3 credits
SPN 542	Golden Age Literature	3 credits
SPN 544	Spanish Peninsular Narrative	3 credits
SPN 545	Fifteenth-Century Sentimental Novel	3 credits
SPN 549	Twentieth-Century Spanish Drama	3 credits
SPN 550	Literature of the Colonial Period	3 credits
SPN 551	Latin-American Novel	3 credits
SPN 552	The Latin-American Short Story	3 credits
SPN 553	Contemporary Latino(a) Literature	3 credits
SPN 554	Twentieth-Century Latin-American Poetry	3 credits
SPN 555	Twentieth-Century Latin-American Theater	3 credits
SPN 556	Understanding the Latin-American Boom	3 credits
SPN 557	Contemporary Spanish Poetry	3 credits
SPN 558	Staging the Revolution	3 credits
SPN 561	The Generation of 1898	3 credits
SPN 564	History of the Spanish Language	3 credits
SPN 568	Mult. Spain Through Letters, Politics, Theater and Film	3 credits
SPN 571	Latinos in the Movies	3 credits

\*Or other 300-500 level SPN courses chosen in consultation with the major advisor.

*The program offers a Spanish minor. See page 215 for details.*

### ***Teacher Certification***

Students who think they may teach Spanish in secondary schools must consult with the Education Department, with the Modern Languages and Literatures Department, and with the appropriate agency in the state in which they intend to teach.

### ***Certificate Programs in University College***

This department does not offer a certificate program in Spanish to students in University College.

***For all SPN courses, please refer to page 454.***

## NATIVE AMERICAN STUDIES

Program Director: Raymond A. Bucko, S.J.  
Program Office: Administration Building, Room 437

**Program Description:** Native Studies is multi-disciplinary in nature, drawing on a wide range of faculty from throughout the College of Arts and Sciences. Each faculty member has extensive experience, cares for students and has enthusiasm for learning and teaching. Each is also committed to collaboration with Native peoples and those who work with them whether students, professionals, or local community members.

**Web Contact/Information:** Additional information about this program may be found at <http://puffin.creighton.edu/NAS>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

### PROGRAM IN NATIVE AMERICAN STUDIES

**Specific Requirements for Admission to the Native American Studies Major:** Completion of NAS 101 Introduction to Native American Studies, with a minimum of a "C" grade.

#### **B. A., Major in Native American Studies: 30 Credits**

##### *Course Requirements*

##### **(All of the following:)**

NAS 101	Introduction to Native American Studies	3 credits
NAS 108	The Native American World	3 credits
NAS 209	Qualitative Methods for the Social Sciences	3 credits
NAS 320	Native American World View, Culture and Values	3 credits
NAS 343	Peoples and Cultures of Native North America	3 credits
NAS 365	Issues of the Native American Experience	3 credits

##### **(One of each of the following groups:)**

##### *A: Native American Art, Literature, Leisure, Culture*

NAS 331	Indians of the Great Plains	3 credits
NAS 358	Critical Issues in Study of Native American Religions	3 credits
NAS 387	Modern Hispanic Art History	3 credits
NAS 468	Native American Art	3 credits

##### *B: Tribal Institutions, Policy and Governmental Relations*

NAS 335	Federal Indian Policy and Law	3 credits
NAS 321	American Indian Tribal Government and Politics	3 credits

##### *C: Native American Experience, Ideologies and Popular Culture*

NAS 325	Digital Video Photography	3 credits
NAS 375	Photojournalism I	3 credits
NAS 378	Photojournalism II	3 credits
NAS 386	History and Aesthetics of Latin American Photography	3 credits

##### *D: Electives*

NAS 319	Art International: Art Culture of Global Community	3 credits
NAS 340	Native American Culture and Health	3 credits
NAS 346	Peoples and Cultures of Latin America	3 credits
NAS 469	Ethnohistory of Native American Peoples	3 credits
NAS 493	Directed Independent Reading	1-6 credits
NAS 495	Directed Independent Study	1-6 credits
NAS 497	Directed Independent Research	1-6 credits

*The program offers a Native American Studies minor. See page 212 for details.*

#### **Certificate Programs in University College**

This program does not offer a certificate program to students in University College.

**For all NAS courses, please refer to page 408.**

# PHILOSOPHY

Chair: John W. Carlson  
Associate Chair: K. Graham  
Department Office: Humanities Center, Room 105

Professors: J. Carlson, R. Feezell, P. Murray, W. Stephens, R. White;  
Associate Professors: E. Cooke, P. Fleming, K. Graham, J. Hause, J. Schuler, E. Selk, J. Yuan;  
Assistant Professors: J. Abrams, M. Brown, A. Wendling.

**Department Description:** The Department of Philosophy at Creighton University is concerned to arouse and sustain a sense of wonder in students, to acquaint them with the main problems and historical periods in philosophy, to help them form the habit of rigorous and clear thinking, and to prepare them to make philosophically mature decisions during the course of a lifetime.

**Web Contact/Information:** Additional information about this department may be found at <http://puffin.creighton.edu/phil/phil.htm>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

## PROGRAMS IN PHILOSOPHY

**Specific Requirements for Admission to the Philosophy Major:** At least a "C" in the prerequisite course: PHL 107. A GPA of 2.00 or better in philosophy courses completed at the time of application.

### ***B. A., Major in Philosophy: 36 Credits***

*Course Requirements: The following Philosophy courses are required for both the History and the Problems tracks. In addition, the student must choose one track.*

#### *Philosophy Core*

**(All of the following:)**

PHL 107	Critical and Historical Introduction to Philosophy	3 credits
PHL 201**	Introduction to Logic	3 credits
PHL 250	Philosophical Foundations for Ethical Understanding	3 credits
PHL 320	God and Persons: Philosophical Reflections	3 credits
PHL 492	Senior Seminar for Majors	3 credits

\*\* Or a more advanced logic course.

#### *History Track*

*History of Philosophy Core*

**(All of the following:)**

PHL 370	History of Classical Greek Philosophy	3 credits
PHL 372	History of Medieval Philosophy	3 credits
PHL 373	History of Modern Philosophy	3 credits

*Electives*

**(One of the following:)**

PHL 321	Epistemology	3 credits
PHL 331	Moral Philosophy	3 credits
PHL 342	Metaphysics	3 credits

**(One of the following:)**

PHL 311	Utopian Thought	3 credits
PHL 351	Introduction to Chinese Philosophy	3 credits
PHL 353	Introduction to Buddhism	3 credits
PHL 359	History of Ethics	3 credits
PHL 366	St. Thomas and Thomism	3 credits
PHL 367	American Philosophy	3 credits
PHL 371	History of Hellenistic Philosophy	3 credits
PHL 374	History of 19 <sup>th</sup> -Century Philosophy	3 credits
PHL 410	Stoicism	3 credits
PHL 459	Marxism	3 credits
PHL 461	The Role of Philosophy in Theology	3 credits
PHL 462	The Thought of John Paul II	3 credits
PHL 463	Phenomenology	3 credits

PHL 465	American Pragmatism	3 credits
PHL 467	Existentialism	3 credits
PHL 469	Contemporary Analytic Philosophy	3 credits
PHL 480	Philosophical Classics	3 credits
PHL 481	A Major Philosopher	3 credits

Two additional upper-division courses. 6 credits

No more than one course that is cross-listed as SRP may be used as a philosophy elective.

### *Specialization in Ethics (History)*

In addition to the History of Philosophy Core, as an alternative to the remaining requirements, students may specialize in Ethics (History) by following the program of study below:

#### **(All of the following:)**

PHL 331	Moral Philosophy	3 credits
PHL 359	History of Ethics	3 credits

#### *Ethics Electives\**

#### **(Two of the following:)**

PHL 343	Ethics and the Professions	3 credits
PHL 348	Philosophy of Feminism	3 credits
PHL 354	Environmental Ethics	3 credits
PHL 356	Philosophy of Peace and War	3 credits
PHL 358	Social and Political Philosophy	3 credits
PHL 368	Moral Psychology	3 credits
PHL 401	Themes in Contemporary Philosophy	3 credits
PHL 435	Literature, Philosophy, and Economics	3 credits
PHL 440	Legal Philosophy	3 credits
PHL 453	Ethics and Public Policy	3 credits
PHL 455	Health Care, Society and Values	3 credits
PHL 457	Biomedical Ethics: Philosophical & Theological Approaches	3 credits
PHL 475	Multiculturalism: History, Phil., Lit., and Education	3 credits
PHL 482	Race in America: Idea and Reality	3 credits

\*No more than one course that is crosslisted as SRP may be used as an Ethics elective.

### *Problems Track*

#### *Problems of Philosophy Core*

#### **(All of the following:)**

PHL 321	Epistemology	3 credits
PHL 331	Moral Philosophy	3 credits
PHL 342	Metaphysics	3 credits

#### *Electives*

#### **(One of the following:)**

PHL 370	History of Classical Greek Philosophy	3 credits
PHL 372	History of Medieval Philosophy	3 credits
PHL 373	History of Modern Philosophy	3 credits



**(One of the following:)**

PHL 309	Meaning in America	3 credits
PHL 317	Philosophy of Sport	3 credits
PHL 328	Philosophy of History	3 credits
PHL 333	Philosophy of the Human Sciences	3 credits
PHL 334	Philosophy of the Natural Sciences	3 credits
PHL 340	Aesthetics	3 credits
PHL 343	Ethics and the Professions	3 credits
PHL 348	Philosophy of Feminism	3 credits
PHL 354	Environmental Ethics	3 credits
PHL 355	Science, Technology, and Values	3 credits
PHL 356	Philosophy of Peace and War	3 credits
PHL 357	Bioethics	3 credits
PHL 358	Social and Political Philosophy	3 credits
PHL 368	Moral Psychology	3 credits
PHL 424	Philosophy of Mind	3 credits
PHL 430	Rationality and Religious Belief	3 credits
PHL 440	Legal Philosophy	3 credits
PHL 450	Philosophy and Commercial Societies	3 credits
PHL 451	Social Justice: Theory and Practice	3 credits
PHL 453	Ethics and Public Policy	3 credits
PHL 455	Health Care, Society and Values	3 credits
PHL 479	The Philosophy of Love and Sex	3 credits

Two additional upper-division courses. 6 credits

No more than one course that is cross-listed as SRP may be used as a philosophy elective.

***Specialization in Ethics (Problems)***

In addition to the Problems of Philosophy Core, as an alternative to the remaining requirements, students may specialize in Ethics (Problems) by following the program of study below:

**(One of the following:)**

PHL 370	History of Classical Greek Philosophy	3 credits
PHL 372	History of Medieval Philosophy	3 credits
PHL 373	History of Modern Philosophy	3 credits

***Ethics Electives\****

**(Three of the following:)**

PHL 343	Ethics and the Professions	3 credits
PHL 348	Philosophy of Feminism	3 credits
PHL 354	Environmental Ethics	3 credits
PHL 356	Philosophy of Peace and War	3 credits
PHL 358	Social and Political Philosophy	3 credits
PHL 368	Moral Psychology	3 credits
PHL 401	Themes in Contemporary Philosophy	3 credits
PHL 435	Literature, Philosophy, and Economics	3 credits
PHL 440	Legal Philosophy	3 credits
PHL 453	Ethics and Public Policy	3 credits
PHL 455	Health Care, Society and Values	3 credits
PHL 457	Biomedical Ethics: Philosophical & Theological Approaches	3 credits
PHL 475	Multiculturalism: History, Phil., Lit., and Education	3 credits
PHL 482	Race in America: Idea and Reality	3 credits

\*No more than one course that is crosslisted as SRP may be used as an Ethics elective.

*The program offers a History of Philosophy minor and a Problems of Philosophy minor. See the Minor section of this Bulletin for details, pages 186-217.*

***Certificate Programs in University College***

This department does not offer a certificate program to students in University College.

***For all PHL courses, please refer to page 420.***

# PHYSICS

Chair: Janet Seger

Department Office: Hixson-Lied Science Building, Room G81

Professors: M. Cherney, S. Cipolla, J. Seger; Professor Emeritus: T. Zepf;  
Associate Professors: R. Kennedy; M. Nichols; Emeritus-Natural Science: B. Lazure;  
Assistant Professors: G. Duda, T. McShane, S.J., D. Sidebottom.

**Department Description:** This degree program provides a strong foundation for careers in the rapidly developing high-tech industries. For students who complete a degree in physics, the rewards are a deep understanding of nature, unusual flexibility in the choice of a career, and exceptional strength and stability in the job market.

**Web Contact/Information:** Additional information about this department may be found at <http://physicsweb.creighton.edu>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

## PROGRAMS IN PHYSICS

**Specific Requirements for Admission to the Physics Major:** PHY 211 and PHY 212 or an "A" or "B" in PHY 211.

### ***B.S., Major in Physics: 36 Credits***

#### *Course Requirements*

*The following Physics courses are required for all majors.*

#### **(All of the following:)**

PHY 211	General Physics I	4 credits
PHY 212	General Physics II	4 credits
PHY 301	Modern Physics	3 credits
PHY 302	Modern Physics Laboratory	1 credit
PHY 303	Electronics Laboratory	1 credit
PHY 331	Physical Optics	3 credits
PHY 332	Optics Laboratory	1 credit
PHY 471	Classical Mechanics	3 credits
PHY 481	Electricity and Magnetism	3 credits
PHY 491	Seminar	1 credit
PHY 531	Quantum Mechanics	3 credits
PHY 541	Thermodynamics and Statistical Mechanics	3 credits

#### *Advanced Lecture Elective*

#### **(Three credits from the following:)**

PHY 351	Physics in Medicine	3 credits
PHY 353	Introduction to Biological Physics	3 credits
PHY 522	Electric Circuits	3 credits
PHY 551	Mathematical Physics	3 credits
PHY 552	Computational Physics	3 credits
PHY 558	Relativity: The Special and General Theories	3 credits
PHY 561	Nuclear Physics	3 credits
PHY 563	High Energy Nuclear Physics	1 credit
PHY 571	Solid State Physics	3 credits
PHY 587	Laser Physics	3 credits
PHY 595	Special Topics	3 credits

#### *Advanced Laboratory Elective*

#### **(Three credits from the following:)**

PHY 497	Directed Independent Research	1-3 credits
PHY 562	Nuclear Instruments and Methods	2 credits
PHY 572	Solid State Laboratory	1 credit

**Requisite Courses:** MTH 245, 246, 347; additional coursework in physics, mathematics, computer science, chemistry, biology, or other sciences is recommended. Choices will depend on the specific career plans and interests of the students.

## ***B.S. Phy., Major in Physics: 48-50 Credits***

### *Course Requirements*

*Students must complete the Physics courses listed above. In addition, they must complete the following courses:*

#### **(All of the following):**

Six additional credits of Advanced Lecture Elective courses 6 credits

#### **(Six credits from the following):\***

MTH 529	Linear Algebra	3 credits
MTH 543	Numerical Analysis	3 credits
MTH 545	Differential Equations	3 credits
MTH 561	Mathematical Statistics I	3 credits

\* Students can satisfy this requirement by instead choosing CHM 203/204 and CHM 205/206.

Additional coursework in mathematics, computer science, chemistry, or other sciences is recommended. Courses selected will depend on specific career goals.

*The program offers a Physics minor and a Biological Physics minor. See the Minor section of this Bulletin for details, pages 186-217.*

### ***Teacher Certification***

Students who think they may teach Physics in secondary schools must consult with the Education Department, with the Physics Department, and with the appropriate agency in the state in which they intend to teach.

### ***Certificate Programs in University College***

This department does not offer a certificate program to students in University College.

***For all PHY courses, please refer to page 427.***

## ***POLITICAL SCIENCE AND INTERNATIONAL RELATIONS***

Chair: James S. Wunsch

Department Office: Administration Building, Room 430A

Professors: T. Clark, B. Evans, J. Wunsch;

Associate Professors: S. Crawford, P. Meeks, G. Ramsden, K. Wise;

Assistant Professors: E. Moreno, M. Jiang, R. Witmer.

**Department Description:** Political Science and International Relations examine how humans organize their societies and make collective choices. They focus on the behavior of individuals (both ordinary people and leaders) and groups, and on the institutions that humans use to make and implement public policy decisions. International Relations focuses in particular on the interactions among states and on international governance. Both examine not just “governments,” but the whole process of governing.

**Web Contact/Information:** Additional information about this department may be found at <http://www.puffin.creighton.edu/pls/index.htm>. However, for definitive details, students are strongly encouraged to check the University’s website for Bulletin changes at <http://www.creighton.edu/Registrar>.

## PROGRAMS IN POLITICAL SCIENCE

**Specific Requirements for Admission to the Political Science Major:** PLS 121 or 215 are normally prerequisites for other political science courses for a department major.

### ***B.A., Major in Political Science: 34 Credits***

#### *Course Requirements*

*The following PLS courses are required for all tracks. In addition the student must choose one track.*

PLS 121	American Government and Politics	3 credits
PLS 215	Comparative Political Systems	3 credits
PLS 310	Political Science Research Methods	4 credits
PLS 591*	Senior Research Seminar in Political Science	3 credits

\*This course is offered only in the fall semester, and **may not** be taken on an independent study or transfer basis.

#### *Political Science Track*

A minimum of 21 additional credits in Political Science from the 200 level or above, as approved by the major advisor and from the subfields below. At least one course from each of the following five subfields:

##### *American Government and Politics*

PLS 235	Interest Group Politics	3 credits
PLS 320	Judicial Process	3 credits
PLS 321	American Indian Tribal Government and Politics	3 credits
PLS 322	American Presidency	3 credits
PLS 323	Campaign Management	3 credits
PLS 324	Congress and The Legislative Process	3 credits
PLS 325	American States and Regions	3 credits
PLS 326	Governing Metropolitan Areas	3 credits
PLS 327	Minority Politics in America	3 credits
PLS 328	Mass Media and American Politics	3 credits
PLS 329	Gender and Politics	3 credits
PLS 331	Managing the Public and Non-profit Sectors	3 credits
PLS 420	Seminar on American Government and Politics	3 credits
PLS 421	Public Opinion, Political Behavior and Survey Resrch	3 credits
PLS 437	Religion and Public Life in the United States	3 credits
PLS 482	Race in America: Idea and Reality	3 credits

##### *Comparative Politics*

PLS 301	Western European Political Systems	3 credits
PLS 303	Russia and the USSR Successor States	3 credits
PLS 305	Eastern European Political Systems	3 credits
PLS 311	Politics of Africa	3 credits
PLS 313	Politics of Middle East	3 credits
PLS 314	Politics of Post-Communist South Eurasia	3 credits
PLS 315	Politics of Asia	3 credits
PLS 317	Latin American Government and Politics	3 credits
PLS 319	Politics of Developing Areas	3 credits
PLS 401	The European Union	3 credits
PLS 405	Ethnicity, Nationalism and Democracy	3 credits
PLS 407	Revolutions and Revolutionary Movements	3 credits
PLS 410	Seminar on Comparative Politics	3 credits
PLS 415	Government/Politics of People's Republic of China	3 credits
PLS 435	Global Poverty and Development	3 credits
PLS 468	Christianity and Power: A Russian Case Study	3 credits
PLS 481	Poverty, Development, and Public Policy	3 credits
PLS 510	The New Institutionalism	3 credits

*International Relations*

PLS 340	International Politics	3 credits
PLS 341	Issues and Challenges in American Foreign Policy	3 credits
PLS 342	Foreign Policy and Diplomacy of Major Powers	3 credits
PLS 343	National Security and Strategic Studies	3 credits
PLS 345	International Political Economy	3 credits
PLS 347	International Regimes	3 credits
PLS 435	Global Poverty and Development	3 credits
PLS 440	Seminar on International Studies	3 credits
PLS 444	Nonviolence and Peaceful Resolution of Conflict	3 credits
PLS 451	Theories of Peace and World Order	3 credits
PLS 472	International Conflict	3 credits
PLS 537	International Law	3 credits

*Political Philosophy and Theory*

PLS 355	Classics of Political Thought	3 credits
PLS 357	Alternative Political Futures	3 credits
PLS 360	Liberal Democracy and Its Critics	3 credits
PLS 362	Conservative Political Thought	3 credits
PLS 367	Theory of Law	3 credits
PLS 432	Democratic Theory	3 credits
PLS 459	Marxism	3 credits
PLS 461	Contemporary Political Theory	3 credits
PLS 463	Game Theory and Social Choice	3 credits
PLS 510	The New Institutionalism	3 credits

*Public Policy and Law*

PLS 332	Public Policy and Education	3 credits
PLS 333	Environmental Politics and Policy	3 credits
PLS 334	Public Policy and Health Care	3 credits
PLS 335	Federal Indian Policy and Law	3 credits
PLS 336	Politics of the American Economy	3 credits
PLS 337	Constitutional Law	3 credits
PLS 339	Public Policy and Poverty in the United States	3 credits
PLS 356	Constitutional Issues	3 credits
PLS 372	Equality, Minorities, and Public Policy	3 credits
PLS 433	Public Policy Analysis	3 credits
PLS 435	Global Poverty and Development	3 credits
PLS 436	Politics and Ethics of Science and Technology	3 credits
PLS 437	Religion and Public Life in the United States	3 credits
PLS 438	Contemporary Issues in Civil Liberties	3 credits
PLS 439	Dangerous Words: The First Amendment	3 credits
PLS 481	Poverty, Development, and Public Policy	3 credits

Additional six credits in Political Science at or above the 200 series chosen from the subfields above with the approval of the major advisor.

### *Public Policy Track*

PLS 331	Managing the Public and Non-profit Sectors	3 credits
PLS 433	Public Policy Analysis	3 credits

#### **(Six credits from Public Policy electives:)**

#### *Public Policy*

PLS 332	Public Policy and Education	3 credits
PLS 333	Environmental Politics and Policy	3 credits
PLS 334	Public Policy and Health Care	3 credits
PLS 336	Politics of the American Economy	3 credits
PLS 337	Constitutional Law	3 credits
PLS 372	Equality, Minorities, and Public Policy	3 credits
PLS 435	Global Poverty and Development	3 credits
PLS 436	Politics and Ethics of Science and Technology	3 credits
PLS 438	Contemporary Issues in Civil Liberties	3 credits

#### **(Three credits selected from American Institutions:)**

#### *American Institutions*

PLS 320	Judicial Process	3 credits
PLS 322	American Presidency	3 credits
PLS 324	Congress and The Legislative Process	3 credits
PLS 325	American States and Regions	3 credits
PLS 326	Governing Metropolitan Areas	3 credits

Three credits in advanced comparative politics from the 300 or 400 level of Political Science. 3 credits

Three credits in advanced international relations from the 300 or 400 level of Political Science. 3 credits

#### *Recommended:*

PLS 483	Public Affairs Internship	3 credits
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**Requisite Courses for Public Policy Track:** Students will select one option below as their requisite sequence. *Economic Policy Option:* ECO 203, 205; SOC 101; six credits selected from ECO 303, 305, 315, 318, 353, 408, 413, 423, 433, 443, 518, 528, 538, FIN 343, 361 or ACC 301. *Social Policy Option:* SOC 101; ECO 203, 205; six credits selected from SOC 215, 223, 225, 235, 301, 307, 309, 317, 320, 321, 331, 341, 355, 411, SWK 261, 371, 401, 473, FIN 343.

### *Legal Studies Track*

PLS 320	Judicial Process	3 credits
PLS 337	Constitutional Law	3 credits
PLS 367	Theory of Law	3 credits

#### **(Three credits from the following:)**

PLS 356	Constitutional Issues	3 credits
PLS 372	Equality, Minorities, and Public Policy	3 credits
PLS 438	Contemporary Issues in Civil Liberties	3 credits
PLS 537	International Law	3 credits
PSY 363	Psychology and the Law	3 credits
SOC 321	Sociology of the Criminal Justice System	3 credits
SOC 323	Law and Society	3 credits

Three credits of advanced work at the 300-500 level in each of three subfields: 3 credits

*Comparative Politics, International Relations, and Public Policy or American Government and Politics.* See lists of courses for these subfields above under the Political Science Track.

**Requisite Courses for Legal Studies Track:** With the approval of the department advisor, students will select 6 credits at the 200 level or higher that clearly advance their legal studies interest.

## PROGRAMS IN INTERNATIONAL RELATIONS

Specific Requirements for Admission to the International Relations Major: None.

### **B.A., Major in International Relations: 36 Credits**

#### *Course Requirements*

*PLS 105	Introduction to World Politics	3 credits
PLS 121	American Government and Politics	3 credits
PLS 215	Comparative Political Systems	3 credits
PLS 310	Political Science Research Methods	3 credits
PLS 340	International Politics	3 credits
PLS 591	Senior Research Seminar in Political Science	3 credits

#### **(Two of the following:)**

PLS 345	International Political Economy	3 credits
PLS 347	International Regimes	3 credits
PLS 472	International Conflict	3 credits

#### **(One of the following:)**

PLS 341	Issues and Challenges to American Foreign Policy	3 credits
PLS 342	Foreign Policy and Diplomacy of Major Powers	3 credits
PLS 343	National Security and Strategic Studies	3 credits
PLS 440	Seminar on International Studies	3 credits
PLS 451	Theories of Peace and World Order	3 credits
PLS 537	International Law	3 credits

#### **(One of the following:)**

PLS 319	Politics of the Developing Areas	3 credits
PLS 405	Ethnicity, Nationalism and Democracy	3 credits
PLS 407	Revolutions and Revolutionary Movements	3 credits
PLS 410	Seminar on Comparative Politics	3 credits
PLS 435	Global Poverty and Development	3 credits
PLS 481	Poverty, Development, and Public Policy	3 credits

#### **(Two of the following:)**

PLS 301	Western European Political Systems	3 credits
PLS 303	Politics of Russia and the USSR Successor States	3 credits
PLS 305	Eastern European Political Systems	3 credits
PLS 310	Political Science Research Methods	3 credits
PLS 311	Politics of Africa	3 credits
PLS 313	Politics of the Middle East	3 credits
PLS 314	Politics of Post-Communist South Eurasia	3 credits
PLS 315	Politics of Asia	3 credits
PLS 317	Latin American Government and Politics	3 credits
PLS 401	The European Union	3 credits
PLS 410	Seminar on Comparative Politics	3 credits
PLS 415	Government/Politics of People's Republic of China	3 credits

\*Students beginning this major in their Sophomore year should substitute an upper-level political science course for this requirement.

**Requisite Courses for International Relations Major:** ECO 203 and 205. Mastery of a modern language is strongly urged for students pursuing the INR major.

*The program offers an American Government and Politics minor, a Comparative Politics minor, an International Relations minor, a Political Science minor, and a Public Policy minor. See the Minor section of this Bulletin for details, pages 186-217.*

### **Teacher Certification**

Students who think they may teach Social Science in secondary schools must consult with the Education Department, with the Political Science Department, and with the appropriate agency in the state in which they intend to teach.

### **Certificate Program in University College**

This department does not offer a certificate program to students in University College.

**For all PLS courses, please refer to page 430.**

# PSYCHOLOGY

Chair: Gary K. Leak

Department Office: Hixson-Lied Science Building, Room 302

Professors: G. Leak, M. Ware, N. Stone; Professor Emeritus: L. Gardner;

Associate Professors: A. Badura Brack, T.L. Budesheim, I. Cherney, L. Finken, M. Huss, J.V.

Lupo; Associate Professor Emerita: E. Dahl;

Assistant Professors: C. Gibson, M. Khanna.

**Department Description:** The Psychology Department designs its courses and programs to provide (a) one facet of the multidisciplinary study of humans, (b) a personal and scientific understanding of behavior, (c) preparation for employment in a business, a social agency, or in secondary education, and (d) preparation for continued study in a graduate school of psychology or in one of the professional schools.

**Web Contact/Information:** Additional information about this department may be found at <http://puffin.creighton.edu/psy/index.htm>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

## PROGRAMS IN PSYCHOLOGY

**Specific Requirements for Admission to the Psychology Major:** Completion of PSY111, including a 2.00 GPA in completed PSY courses and completion of at least 24 hours of undergraduate study.

### ***B. A., Major in Psychology: 34 Credits***

#### *Course Requirements*

#### *Group A: Introduction and Foundations of Psychology*

#### **(All of the following:)**

PSY 111	Introductory Psychology	3 credits
PSY 313	Research Methods and Statistics I	3 credits
PSY 315	Research Methods and Statistics II	3 credits
PSY 316	Research Methods and Statistics II-Lab	1 credit

#### **(Fifteen credits: At least one course from each of the following three groups:)**

#### *Group B: Experimental/Mechanistic Approaches to Psychology*

PSY 431	Cognitive Psychology	3 credits
PSY 434	Learning: Basic Processes	3 credits
PSY 436	Sensation and Perception	3 credits
PSY 437	Physiological Psychology	3 credits

#### *Group C: Humanistic Approaches*

PSY 341	Infant and Child Development	3 credits
<i>Or</i>		
PSY 342	Adolescent and Adult Development	3 credits
PSY 343	Psychology of Personality	3 credits
PSY 344	Social Psychology	3 credits
PSY 351	Abnormal Psychology	3 credits

#### *Group D: Capstone*

PSY 424	History and Systems of Psychology	3 credits
PSY 326	Undergraduate Internship in Psychology	3-4 credits
<i>Or</i>		
PSY 426	Internship in Industrial/Organizational Psychology	3-4 credits
PSY 428	Multicultural Issues in Psychology	3 credits
<i>Or</i>		
PSY 473	Psychology of Gender	3 credits
PSY 465	Advanced Behavioral Research	3 credits
<i>Or</i>		
PSY 491	Honors Seminar	3 credits

Students must also take nine additional credits as elective. Three of those credits may be earned by taking SWK 261.

9 credits



### ***Teacher Certification***

Students who think they may teach Social Science in secondary schools must consult with the Education Department, with the Psychology Department, and with the appropriate agency in the state in which they intend to teach.

### ***Certificate Programs in University College***

This department offers one certificate program to students in University College. See the description for this certificate on page 278 in the University College section of the Bulletin.

***For all PSY courses, please refer to page 438.***

## ***SENIOR PERSPECTIVE***

**Program Description:** Senior Perspective courses are a group of courses from which students may choose to fulfill a core requirement in Category A of the College of Arts and Sciences' Core Curriculum. The goal of this core requirement is to provide an integrative and interdisciplinary experience near the end of a student's college career. All courses in this category (1) focus on a major area of human and social concern, (2) are interdisciplinary, (3) address ethical and value questions, and (4) emphasize personal reflection.

**Contact Information:** Additional information about SRP courses may be found at <http://puffin.creighton.edu/srp/srp.htm> or by contacting Eugene E. Selk, Humanities Center, Room 107. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

***For all SRP courses, please refer to page 444.***

## ***SOCIAL WORK***

Chair: G. Grandbois

Department Office: Administration Building, Room 437

Associate Professor: G.H. Grandbois;

Assistant Professors: B. Harris, F. Origanti.

**Department Description:** *Mission:* Guided by the core values and traditions of Catholic, Jesuit education, the mission of the Department of Social Work is to prepare students for professional social work practice. Advancement of this broad design is the solidarity of purpose embraced by the University and College of Arts and Sciences. This includes a commitment to life long learning and professional growth, service to the disenfranchised, promotion of social and economic justice, recognition and appreciation for diversity, belief in individual worth, importance of the family, and the relevance of history for the present and future.

As a professional program, the Department of Social Work is committed to the promotion, restoration, improvement and maintenance of social functioning of various systems (individuals, families, groups, organizations, communities) realized by the strengthening of their problem-solving capacities, and empowerment of human potential that contributes to the improvement of society.

**Goals:** 1. Prepare students for beginning level generalist practice with individuals, families, small groups, organizations, and communities. 2. Prepare students to practice with diverse populations. 3. Promote professional student identities incorporating social work ethics and values. 4. Prepare students for continued professional growth and development. 5. Understand and apply the knowledge, and skills for professional social work practice.

The Department of Social Work is accredited by the Council on Social Work Education.

**Web Contact/Information:** Additional information about this department may be found at <http://puffin.creighton.edu/Swk/index.htm>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

## *PROGRAM IN SOCIAL WORK*

**Specific Requirements for Admission to the Social Work Major:** Successful completion of SWK 261, PSY 111, SOC 101; a minimum GPA of 2.25; Admission to the department is selective and is based upon an application process that includes: the declaration of the major, a written application, a short (3-4 pages) biography, and three references. A personal interview may be required.

### ***B.S.W. Major in Social Work: 39 Credits***

#### *Course Requirements*

##### **(All of the following:)**

SWK 261	Introduction to Social Welfare	3 credits
SWK 275	Human Behavior and the Social Environment	3 credits
SWK 276	Human Behavior and Social Environment II	3 credits
SWK 345	Basic Social Work Skills for Generalist Practice	4 credits
SWK 377	Social Work with Individuals and Families	3 credits
SWK 429	Social Work with Groups	3 credits
SWK 460	Field Practicum Seminar I	3 credits
SWK 461	Field Practicum I	4 credits
SWK 473	Social Work with Organizations and Communities	3 credits
SWK 480	Field Practicum Seminar II	3 credits
SWK 481	Field Practicum II	4 credits

##### **(One of the following:)**

SWK 401	Social Welfare Policy (Recommended)	3 credits
PLS 339	Public Policy and Poverty in the United States	3 credits

**CSWE standards require that social work majors enter their social careers with solid foundations in relevant content areas. Students should, therefore, be alert to the following pre-requisite courses:**

##### **(All of the following:)**

BIO 149	Human Biology	3 credits
PSY 111	Introductory Psychology	3 credits
SOC 101	Self and Society	3 credits
SOC 212	Quantitative Methods in the Social Sciences	3 credits
SWK 300**	Economics, Politics, and Social Welfare	3 credits

##### **(One of the following:)**

PSY 211	Introductory Statistics	3 credits
SOC 214	Statistics for the Social Sciences	4 credits

##### **(One of the following:)**

ANT 341	American Cultural Minorities	3 credits
SWK 365	Issues of Native American Experience	3 credits

*\*\*Students may substitute for this course two courses, one chosen from each of the following pairs: PLS 101 or PLS 121; and ECO 203 or ECO 205.*

In order to be eligible for field placement a student must have achieved a minimum GPA of 2.25 in all required courses for the Social Work major.

Students must earn a grade of "C" or better in all prerequisite and required courses.

Students may be dropped from the Social Work Program if they receive below a "C" grade in required courses for the Social Work major.

## ***Certificate Programs in University College***

This department does not offer a certificate program to students in University College.

***For all SWK courses, please refer to page 448.***

# SOCIOLOGY AND ANTHROPOLOGY

Chair: Raymond Bucko, S.J.

Department Office: Administration Building, Room 437

Professors: R. Bucko, S.J., C. Harper;

Associate Professors: J. Ault, J. Clark, L. Riley;

Assistant Professors: B. Dilly, R. Murray.

**Department Description:** Sociology and Anthropology study social life, social change, and the social causes and consequences of human behavior. Sociologists and anthropologists investigate the structure of groups, organizations, and societies, cultures, and how people interact within these contexts. Since all human behavior is social, the subject matter of sociology and anthropology range from the intimate family to the hostile mob; from organized crime to religious cults; from the divisions of race, gender and social class to the shared beliefs of a common culture; and from the sociology of work to the anthropology of sports.

**Web Contact/Information:** Additional information about this department may be found at <http://puffin.creighton.edu/soc/soc.htm>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

## PROGRAMS IN SOCIOLOGY

**Specific Requirements for Admission to the Sociology Major:** Completion of SOC 101 with a grade of "C" or better, 3 credits in a Sociology or Anthropology course with a grade of "C" or better.

### ***B. S., Major in Sociology: 37 Credits***

*Course Requirements for All Tracks:*

*The following Sociology courses are required for all tracks. In addition, the student must choose one track.*

SOC 101	Self and Society	3 credits
SOC 209	Qualitative Methods in the Social Sciences	3 credits
SOC 212	Quantitative Research Methods in the Social Sciences	3 credits
SOC 214	Statistics for the Social Sciences	4 credits
SOC 301	Social and Cultural Theory	3 credits
SOC 411	Social Inequality and Stratification	3 credits

### ***Standard Sociology Track***

**(Eighteen credits chosen from the following:)**

SOC 295	Special Projects	3 credits
SOC 307	Demography: World Population Issues	3 credits
SOC 309	The Urban Social System	3 credits
SOC 310	Religion and Contemporary American Society	3 credits
SOC 311	Sociology of the Family	3 credits
SOC 317	Global Health Issues	3 credits
SOC 318	Gender in American Society	3 credits
SOC 320	Sociology of Deviant Behavior	3 credits
SOC 321	Sociology of the Criminal Justice System	3 credits
SOC 325	Perspectives on Aging	3 credits
SOC 331	Industry and Society	3 credits
SOC 333	Social Psychology	3 credits
SOC 335	Technology and Human Values	3 credits
SOC 341	American Cultural Minorities	3 credits
SOC 350	Social Change	3 credits
SOC 355	Environment and Society: Sociological Perspectives	3 credits
SOC 360	Gender, Society, and Culture	3 credits
SOC 385	Community Internship	3 credits
SOC 400	Topical Seminar in Sociology	3 credits
SOC 423	Law and Society	3 credits
SOC 440	Gender Communication	3 credits
SOC 455	Food, Society, and Environment	3 credits

SOC 470	Introduction to Geographic Information Systems	4 credits
SOC 493	Directed Independent Readings	1-6 credits
SOC 495	Directed Independent Study	1-6 credits
SOC 497	Directed Independent Research	1-6 credits
<i>Applied Research Methods Track</i>		
SOC 307	Demography: World Population Issues	3 credits
SOC 470	Introduction to Geographic Information Systems	4 credits
SOC 497	Directed Independent Research	6 credits
<b>(Five credits from the following:)</b>		
SOC 295	Special Projects	3 credits
SOC 309	The Urban Social System	3 credits
SOC 310	Religion and Contemporary American Society	3 credits
SOC 311	Sociology of the Family	3 credits
SOC 317	Global Health Issues	3 credits
SOC 318	Gender in American Society	3 credits
SOC 320	Sociology of Deviant Behavior	3 credits
SOC 321	Sociology of the Criminal Justice System	3 credits
SOC 331	Industry and Society	3 credits
SOC 333	Social Psychology	3 credits
SOC 335	Technology and Human Values	3 credits
SOC 341	American Cultural Minorities	3 credits
SOC 350	Social Change	3 credits
SOC 355	Environment and Society: Sociological Perspectives	3 credits
SOC 360	Gender, Society, and Culture	3 credits
SOC 385	Community Internship	3 credits
SOC 400	Topical Seminar in Sociology	3 credits
SOC 423	Law and Society	3 credits
SOC 440	Gender Communication	3 credits
SOC 455	Food, Society, and Environment	3 credits
SOC 493	Directed Independent Readings	1-6 credits
SOC 495	Directed Independent Study	1-6 credits
<i>Criminal Justice Policy Track</i>		
SOC 320	Sociology of Deviant Behavior	3 credits
SOC 321	Sociology of the Criminal Justice System	3 credits
SOC 341	American Cultural Minorities	3 credits
SOC 423	Law and Society	3 credits
PLS 337	Constitutional Law	3 credits
<b>(Three credits from the following:)</b>		
SOC 295	Special Projects	3 credits
SOC 307	Demography: World Population Issues	3 credits
SOC 309	The Urban Social System	3 credits
SOC 310	Religion and Contemporary American Society	3 credits
SOC 311	Sociology of the Family	3 credits
SOC 317	Global Health Issues	3 credits
SOC 318	Gender in American Society	3 credits
SOC 325	Perspectives on Aging	3 credits
SOC 331	Industry and Society	3 credits
SOC 333	Social Psychology	3 credits
SOC 335	Technology and Human Values	3 credits
SOC 350	Social Change	3 credits
SOC 355	Environment and Society: Sociological Perspectives	3 credits
SOC 360	Gender, Society and Culture	3 credits
SOC 385	Community Internship	3 credits
SOC 400	Topical Seminar in Sociology	3 credits
SOC 440	Gender Communication	3 credits
SOC 455	Food, Society, and Environment	3 credits

SOC 470	Introduction to Geographic Information Systems	4 credits
SOC 493	Directed Independent Readings	1-6 credits
SOC 495	Directed Independent Study	1-6 credits
SOC 497	Directed Independent Research	1-6 credits
<i>Family Studies Track</i>		
SOC 205	American Family Issues	3 credits
SOC 311	Sociology of the Family	3 credits
SOC 318	Gender in American Society	3 credits
SOC 325	Perspectives on Aging	3 credits
<b>(Six credits from the following:)</b>		
SOC 295	Special Projects	3 credits
SOC 307	Demography: World Population Issues	3 credits
SOC 309	The Urban Social System	3 credits
SOC 310	Religion and Contemporary American Society	3 credits
SOC 317	Global Health Issues	3 credits
SOC 320	Sociology of Deviant Behavior	3 credits
SOC 321	Sociology of the Criminal Justice System	3 credits
SOC 331	Industry and Society	3 credits
SOC 333	Social Psychology	3 credits
SOC 335	Technology and Human Values	3 credits
SOC 341	American Cultural Minorities	3 credits
SOC 350	Social Change	3 credits
SOC 355	Environment and Society: Sociological Perspectives	3 credits
SOC 360	Gender, Society and Culture	3 credits
SOC 385	Community Internship	3 credits
SOC 400	Topical Seminar in Sociology	3 credits
SOC 423	Law and Society	3 credits
SOC 440	Gender Communication	3 credits
SOC 455	Food, Society, and Environment	3 credits
SOC 470	Introduction to Geographic Information Systems	4 credits
SOC 493	Directed Independent Readings	1-6 credits
SOC 495	Directed Independent Study	1-6 credits
SOC 497	Directed Independent Research	1-6 credits
<i>Global Health Studies Track</i>		
SOC 215	Sociology of Health Care	3 credits
SOC 307	Demography: World Population Issues	3 credits
SOC 317	Global Health Issues	3 credits
SOC 325	Perspectives on Aging	3 credits
SOC 335	Technology and Human Values	3 credits
ANT 363	Medical Anthropology	3 credits

*The program offers an Anthropology minor, an Applied Research Methods in Sociology and Anthropology minor, a Criminal Justice Policy minor, a Globalization: Social and Cultural Issues minor and a Sociology minor. See the Minor section of this Bulletin for details, pages 186-217.*

### ***B.A., Major in Justice and Society***

See the description for this interdisciplinary major, offered through the Department of Sociology and Anthropology and the Justice and Peace Studies Program, on page 158).

### ***Teacher Certification***

Students who think they may teach Social Science at the secondary education level must consult with the Education Department, the Department of Sociology and Anthropology, and the appropriate agency in the state in which they intend to teach.

### ***Certificate Programs in University College***

This department does not offer a certificate program to students in University College.

***For all SOC courses, please refer to page 451.***

## PROGRAMS IN ANTHROPOLOGY

**Specific Requirements for Admission to the Anthropology Major:** Successful completion of ANT 111 with a grade of “C” or better and 3 credits in the Sociology or Anthropology course with a grade of “C” or better.

### ***B.A., Major in Anthropology: 36 Credits***

#### *Course Requirements*

#### **(All of the following:)**

ANT 111	Introduction to Anthropology	3 credits
ANT 209	Qualitative Methods in the Social Sciences	3 credits
ANT 301	Social and Cultural Theory	3 credits
ANT 310	Physical Anthropology	3 credits
ANT 319	Language Culture and the Individual	3 credits
ANT 326	Introduction to Archeology and Prehistory	3 credits

#### **(Six credits: One course from each of two culture areas:)**

#### *Africa*

ANT 342	Peoples and Cultures of Sub-Saharan Africa	3 credits
ANT 347	Peoples and Cultures of Africa and the Middle East	3 credits

#### *Asia*

ANT 348	Peoples and Cultures of Asia	3 credits
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#### *Latin America*

ANT 346	Peoples and Cultures of Latin America	3 credits
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#### *Native America*

ANT 324	Native American World View, Cultures and Values	3 credits
ANT 331	Indians of the Great Plains	3 credits
ANT 343	Peoples and Cultures of Native North America	3 credits
ANT 358	Critical Issues in the Study of Native American Religions	3 credits
ANT 469	Ethnohistorical Approaches to Native American Cultures	3 credits

#### **(Twelve credits from the following:)**

ANT 101	Introduction to Native American Studies	3 credits
ANT 108	The Native American World	3 credits
ANT 212	Quantitative Methods in the Social Sciences	3 credits
ANT 214	Statistics for the Social Sciences	4 credits
ANT 244	Cross-Cultural Communication	3 credits
ANT 302	American Studies Seminar: The American Character	3 credits
ANT 307	Demography: World Population Issues	3 credits
ANT 317	Global Health Issues	3 credits
ANT 330	Museums and Social Science	3 credits
ANT 341	American Cultural Minorities	3 credits
ANT 345	Sports in American Culture	3 credits
ANT 350	Social Change	3 credits
ANT 352	Witchcraft, Oracles and Magic	3 credits
ANT 355	Environment and Society: Sociological Perspectives	3 credits
ANT 360	Gender, Society and Culture	3 credits
ANT 362	Applied Anthropology	3 credits
ANT 363	Medical Anthropology	3 credits
ANT 400	Topical Seminar in Anthropology	3 credits
ANT 409	Race and Gender Relations	3 credits
ANT 444	Non-Violence and Peaceful Resolution of Conflict	3 credits
ANT 455	Food, Society, and Environment	3 credits
ANT 493	Directed Independent Readings*	1-6 credits
ANT 495	Directed Independent Study*	1-6 credits
ANT 497	Directed Independent Research*	1-6 credits
ANT 525	Archaeological Fieldwork and Analysis	3 credits
ANT 526	Archaeology of Roman Palestine	3 credits

\* May be repeated to a limit of six hours.

Anthropology majors who are planning to go to graduate school are encouraged to also take ANT 212 and ANT 214. They are also encouraged to spend one summer in our Lakota Field School (offered during Summer Sessions) or an ethnographic field school or an archeological field school (such as ANT 525 and ANT 526 offered through the Theology Department).

*The program offers an Anthropology minor, an Applied Research Methods in Sociology and Anthropology minor, a Criminal Justice Policy minor, a Globalization: Social and Cultural Issues minor and a Sociology minor. See the Minor section of this Bulletin for details, pages 186-217.*

### **Teacher Certification**

Students who think they may teach Social Science at the secondary education level must consult with the Education Department, the Department of Sociology and Anthropology, and the appropriate agency in the state in which they intend to teach.

### **Certificate Programs in University College**

This department does not offer a certificate program.

*For all ANT courses, please refer to page 296.*

## **THEOLOGY**

Chair: Todd A. Salzman

Department Office: Humanities Building, Room 121

Professors: D. Hamm, S.J., W. Harmless, S.J., R. Hauser, S.J., M. Lawler, B. Malina, J. Mueller, R. Reno, R. Simkins, W. Wright;

Associate Professors: J. Fleming, T. Kelly, J. O'Keefe, T. Salzman;

Assistant Professors: P. Amidon, S.J., E. Burke Sullivan, S. Calef, M. Legaspi, R. Miller, N. Roddy.

**Department Description:** The Theology Department is dedicated to the classical understanding of theology as "faith seeking understanding." Faculty in this department represent a spectrum of theological interests including Old and New Testament studies, patristic and historical theology, moral theology, liturgical theology, and systematic theology. The theology department also has expertise in several of the world's religious traditions. The department attracts students with diverse career goals ranging from ministry to medicine.

**Web Contact/Information:** Additional information about this department may be found at <http://moses.creighton.edu/Dept/index.html>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

### **PROGRAMS IN THEOLOGY**

**Specific Requirements for Admission to the Theology Major:** Sophomore standing and "C" average in two or more completed theology courses.

#### **B. A. Major in Theology: 36-42 Credits**

##### *Course Requirements*

##### **(All of the following:)**

THL 100	Christianity in Context	3 credits
THL 250	Theological Foundations for Ethical Understanding	3 credits
THL 335	Jesus Christ Yesterday and Today	3 credits
THL 390	History of the Christian Church	3 credits
THL 492	Senior Seminar	3 credits

##### **(Three credits chosen from each of the following five areas:)**

##### *Old Testament Scripture*

THL 201	Reading the Old Testament	3 credits
THL 202	Creation and Apocalypse	3 credits
THL 203	Biblical Ancestors and Heroes	3 credits

<i>New Testament Scripture</i>		
THL 205	Sickness, Disability, and Healing in the Bible	3 credits
THL 207	Reading the New Testament	3 credits
THL 208	New Testament Communities and Their Stories	3 credits
THL 209	The Synoptic Gospels: The Life of Jesus	3 credits
THL 210	Applying the Memory of Jesus: The Comm. of John	3 credits
THL 212	Paul and His Legacy	3 credits
<i>Biblical Studies</i>		
THL 501	The Pentateuch	3 credits
THL 502	Old Testament Themes	3 credits
THL 503	The Prophetic Literature of the Old Testament	3 credits
THL 504	The Wisdom Literature of the Old Testament	3 credits
THL 507	Gospel of Matthew	3 credits
THL 508	The Gospel of Mark	3 credits
THL 509	The Gospel of Luke and the Acts of the Apostles	3 credits
THL 511	The Gospel of John	3 credits
THL 514	The Pastoral Epistles	3 credits
THL 516	The Book of Revelation (The Apocalypse)	3 credits
THL 517	The Parables of Jesus	3 credits
THL 518	Women and the Bible	3 credits
THL 520	The Dead Sea Scrolls	3 credits
THL 524	History of Ancient Israel	3 credits
THL 525	Archaeological Fieldwork and Analysis	3 credits
THL 526	Archaeology of Roman Palestine	3 credits
THL 527	Study Tour of Biblical Israel	3 credits
THL 529	Translations of the Bible	3 credits
<i>Doctrinal, Historical or Liturgical Theology</i>		
THL 530	Contemporary Catholic Theologians	3 credits
THL 531	Studies in Early Christianity	3 credits
THL 533	Ecclesiology: Contemporary Church Questions	3 credits
THL 534	Introduction to Liberation Theology	3 credits
THL 535	Doctrinal Development: Christology	3 credits
THL 537	Doctrinal Development: Sin and Grace	3 credits
THL 538	Seminar in Christian Anthropology	3 credits
THL 539	Seminar in Christian Eschatology	3 credits
THL 540	Ecclesiology: The Documents of Vatican II	3 credits
THL 544	Christian Celebration: The Liturgical Year	3 credits
THL 545	Liturgy and Christian Life	3 credits
<i>Christian Life Studies</i>		
THL 560	Theology of Ministry	3 credits
THL 561	Finding God in Daily Life: Prayer and Discernment	3 credits
THL 563	Contemporary Moral Problems	3 credits
THL 564	Christian Sexual Ethics	3 credits
THL 565	Catholic Social Teaching	3 credits
THL 567	Ethical Issues in Health Care	3 credits
THL 568	Women in the Christian Tradition	3 credits
THL 572	Ethics and Spirituality	3 credits
THL 573	Religion and Politics	3 credits
THL 574	Faith and Food	3 credits
THL 575	Foundations of Christian Spirituality	3 credits
THL 579	Special Methods Teaching Religion Secondary Schools	3 credits
THL 580	Christianity and Modern Humanism	3 credits
THL 587	Methods of Teaching Religion in Elementary School	3 credits
THL 588	Christian Ethics of War and Peace	3 credits
Additional six THL credits chosen from 300-599.		6 credits



### *Specialization in Biblical Studies*

In addition to the Theology Major requirements students may specialize in Biblical Studies by choosing six credits from the following:

**(Six credits of the following:)**

THL 501	The Pentateuch	3 credits
THL 502	Old Testament Themes	3 credits
THL 503	The Prophetic Literature of the Old Testament	3 credits
THL 504	The Wisdom Literature of the Old Testament	3 credits
THL 507	Gospel of Matthew	3 credits
THL 508	The Gospel of Mark	3 credits
THL 509	The Gospel of Luke and the Acts of the Apostles	3 credits
THL 511	The Gospel of John	3 credits
THL 514	The Pastoral Epistles	3 credits
THL 516	The Book of Revelation (The Apocalypse)	3 credits
THL 517	The Parables of Jesus	3 credits
THL 518	Women and the Bible	3 credits
THL 520	The Dead Sea Scrolls	3 credits
THL 524	History of Ancient Israel	3 credits
THL 525	Archaeological Fieldwork and Analysis	3 credits
THL 526	Archaeology of Roman Palestine	3 credits
THL 527	Study Tour of Biblical Israel	3 credits
THL 529	Translations of the Bible	3 credits

### *Specialization in Doctrinal, Historical or Liturgical Theology*

In addition to the Theology Major requirements students may specialize in Doctrinal, Historical or Liturgical Theology by choosing six credits from the following:

**(Six credits of the following:)**

THL 530	Contemporary Catholic Theologians	3 credits
THL 531	Studies in Early Christianity	3 credits
THL 533	Ecclesiology: Contemporary Church Questions	3 credits
THL 534	Introduction to Liberation Theology	3 credits
THL 535	Doctrinal Development: Christology	3 credits
THL 537	Doctrinal Development: Sin and Grace	3 credits
THL 538	Seminar in Christian Anthropology	3 credits
THL 539	Seminar in Christian Eschatology	3 credits
THL 540	Ecclesiology: The Documents of Vatican II	3 credits
THL 544	Christian Celebration: The Liturgical Year	3 credits
THL 545	Liturgy and Christian Life	3 credits

### *Specialization in Christian Life Studies*

In addition to the Theology Major requirements students may specialize in Christian Life Studies by choosing six credits from the following:

**(Six credits of the following:)**

THL 560	Theology of Ministry	3 credits
THL 561	Finding God in Daily Life: Prayer and Discernment	3 credits
THL 563	Contemporary Moral Problems	3 credits
THL 564	Christian Sexual Ethics	3 credits
THL 565	Catholic Social Teaching	3 credits
THL 567	Ethical Issues in Health Care	3 credits
THL 568	Women in the Christian Tradition	3 credits
THL 572	Ethics and Spirituality	3 credits
THL 573	Religion and Politics	3 credits
THL 574	Faith and Food	3 credits
THL 575	Foundations of Christian Spirituality	3 credits
THL 579	Special Methods Teaching Religion Secondary Schools	3 credits
THL 580	Christianity and Modern Humanism	3 credits
THL 587	Methods of Teaching Religion in Elementary School	3 credits
THL 588	Christian Ethics of War and Peace	3 credits

*The program offers an Applied Ethics minor, a Biblical Studies minor, a Christian Life Studies minor and a Historical and Systematic Theology minor. See the Minor section of this Bulletin for details, pages 186-217.*

#### ***Teacher Certification***

Students who think they may teach Religious Education in secondary schools must consult with the Education Department, with the Theology Department, and with the appropriate agency in the state in which they intend to teach.

#### ***Certificate Programs in University College***

This department offers four certificate programs to students in University College: *Liturgy, Ministry, Spirituality, and Theology*. See the descriptions for these certificates on page 270-279 in the University College section of the Bulletin.

***For all THL courses, please refer to page 462.***

## ***WOMEN'S AND GENDER STUDIES***

Program Director: Erika Kirby

Program Office: Hitchcock Communication Arts Building, Room 303C

**Program Description:** Women's and Gender Studies is an interdisciplinary program focused upon women, men and gender. As Women's Studies, the program highlights experiences and contributions of women, both historically and in contemporary society. As Gender Studies, the program explores constructions and experiences of diverse gender roles and orientations.

**Web Contact/Information:** Additional information about this program may be found at <http://puffin.creighton.edu/wgs/wgsNew/>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www.creighton.edu/Registrar>.

### ***PROGRAM IN WOMEN'S AND GENDER STUDIES***

*The program offers a Women's and Gender Studies minor. See page 217 for details.*

***For all WGS courses, please refer to page 472.***

## MINORS

Minors offer students the opportunity to develop substantial knowledge in areas outside their majors and achieve the second and third College learning outcomes listed on page 100:

- To think critically about information, assumptions, and arguments found in multiple forms of academic and cultural discourse; and
- To integrate broad and diverse learning with at least one individually chosen academic discipline or professional field.

Eighteen credits of coursework are required to complete a minor. Students must achieve a cumulative GPA of 2.00 in courses toward the minor. Student may declare a minor online at <https://www2.creighton.edu/ccas>.

\*The fact that a required course may be cross-listed in another program of study is irrelevant to this restriction.

### *AFRICAN STUDIES MINOR*

**Program Description:** The African Studies minor offers students an overview of historical, literary, political and ethnographic material about Africa. Students with this background will be able to understand the major challenges facing Africa today.

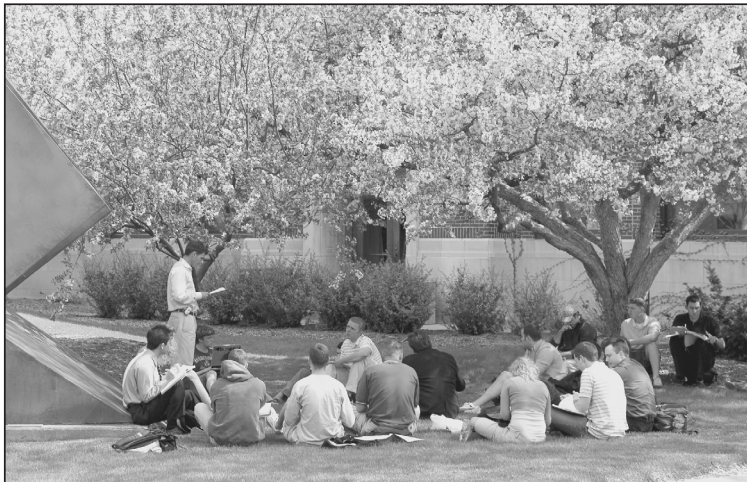
**Contact:** Director, African Studies Program

**(All of the following):**

AFS 311	Politics of Africa	3 credits
AFS 342	Peoples and Cultures of Sub-Saharan Africa	3 credits
AFS 390	Introduction to African Literature	3 credits

**(One of the following):**

AFS 388	Origins of Modern Africa	3 credits
AFS 484	Nationalist Movements in Colonial Africa	3 credits
AFS 487	History of West Africa	3 credits
AFS 489	Southern Africa: The Politics of Race	3 credits
Six additional credits	from any 300- or 400-level AFS courses	6 credits



## AMERICAN GOVERNMENT AND POLITICS MINOR

**Program Description:** The American Government and Politics minor examines how humans organize society and make collective choices within the context of the United States. It focuses particularly on political actors, political institutions and political process in the United States. This minor examines institutions and institutional design, political actors and the decision-making process, and public participation in the political and legal process. Students completing the American Politics minor will have the requisite skills to work within local, state and federal government agencies and offices, work on election campaigns, and work for organizations that seek to influence the political process.

**Contact:** Chair, Department of Political Science and International Relations

**(All of the following:)**

PLS 121 American Government and Politics 3 credits

**(Fifteen credits from the following:)**

PLS 235	Interest Group Politics	3 credits
PLS 320	Judicial Process	3 credits
PLS 322	American Presidency	3 credits
PLS 323	Campaign Management	3 credits
PLS 324	Congress and The Legislative Process	3 credits
PLS 325	American States and Regions	3 credits
PLS 326	Governing Metropolitan Areas	3 credits
PLS 327	Minority Politics in America	3 credits
PLS 328	Mass Media and American Politics	3 credits
PLS 329	Gender and Politics	3 credits
PLS 331	Managing the Public and Non-profit Sectors	3 credits
PLS 420	Seminar on American Government and Politics	3 credits
PLS 421	Public Opinion, Political Behavior and Survey Research	3 credits
PLS 437	Religion and Public Life in the United States	3 credits
PLS 482	Race in America: Idea and Reality	3 credits

## ANCIENT GREEK MINOR

**Program Description:** Students will study intermediate and advanced ancient Greek, along with elective courses from another ancient language or Classical and Near Eastern Studies offerings in translation.

**Contact:** Chair, Department of Classical and Near Eastern Studies

**(Twelve credits from the following:)**

GRK 201	Intermediate Greek	3 credits
GRK 301	Readings in Greek	3 credits
GRK 303	Greek Prose Composition	3 credits
GRK 400	Archaic Greek Authors	3 credits
GRK 401	Archaic Greek Themes and Genres	3 credits
GRK 402	Classical Greek Authors	3 credits
GRK 403	Classical Greek Themes and Genres	3 credits
GRK 404	Post-classical Greek Authors	3 credits
GRK 405	Post-classical Greek Themes and Genres	3 credits
GRK 406	Late/koine Greek Authors	3 credits
GRK 407	Late/koine Greek Themes and Genres	3 credits
GRK 408	Byzantine Greek Authors	3 credits
GRK 409	Byzantine Greek Themes and Genres	3 credits
GRK 410	Diachronic Readings in Greek	3 credits
GRK 411	Readings in Greek and Latin	3 credits
GRK 493	Directed Independent Readings*	2-4 credits

Six additional credits chosen from the list above or CNE courses numbered 300 or above, or six credits from Arabic, Hebrew or Latin courses.

\*No more than six credits in Directed Independent Readings will count toward the minor.

## *ANCIENT HISTORY MINOR*

**Program Description:** Students will study a broad range of history of the Near Eastern, Greek, and Roman worlds, with exposure to literary, epigraphic, and material remains. Attention will be given to political and social institutions and cultural forms, as well as the dynamic changes in these societies and the interrelationships between them.

**Contact:** Chair, Department of Classical and Near Eastern Studies

**(All of the following:)**

CNE 401	Greek History to the Peloponnesian War	3 credits
CNE 403	The Roman Republic	3 credits
CNE 404	The Roman Empire	3 credits
CNE 420	Selected Topics in Ancient History	3 credits

**(Two of the following:)**

CNE 316	Women in Ancient Greece and Hellenistic Egypt	3 credits
CNE 348	Muhammad and the Rise of Islam	3 credits
CNE 349	Egyptian Art and Archaeology	3 credits
CNE 350	Archaeology of Syria-Palestine	3 credits
CNE 354	Greek Art and Archaeology	3 credits
CNE 357	Ancient Near Eastern Art and Archaeology	3 credits
CNE 362	Early Christian Art and Archaeology	3 credits
CNE 420	Selected Topics in Ancient History	3 credits
CNE 430	Selected Topics in Ancient Art and Archaeology	3 credits
CNE 461	The City of Rome	3 credits
CNE 524	History of Ancient Israel	3 credits
CNE 526	Archaeology of Roman Palestine	3 credits

## *ANTHROPOLOGY MINOR*

**Program Description:** The Anthropology minor introduces students to the traditional four-field approach to the study of culture. While the introduction course covers all four fields with a focus on cultural anthropology, students select courses from two of the other three theoretical fields (physical anthropology, archaeology, linguistics) and choose three electives to examine issues in anthropology such as the study of religion and/or specific cultures and/or a particular region of the world (i.e. Africa, Asia, Latin America, or Native America).

**Contact:** Chair, Department of Sociology and Anthropology

**(All of the following:)**

ANT 111	Introduction to Anthropology	3 credits
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**(Two of the following:)**

ANT 310	Physical Anthropology	3 credits
ANT 319	Language, Culture, and the Individual	3 credits
ANT 326	Introduction to Archaeology and Prehistory	3 credits

Nine additional credits from any ANT courses numbered 200 or above

ANT 493, ANT 495, and ANT 497 cannot be applied toward this minor.

## APPLIED ETHICS MINOR

**Program Description:** An interdisciplinary program of studies designed to provide students with an understanding of applied ethics from two perspectives, philosophy and theology. The minor introduces students to the differences and similarities in philosophical and theological approaches to applied ethics, different theories of ethics in these two disciplines, and how to relate the two.

**Contact:** Julia A. Fleming, Associate Professor of Theology; John W. Carlson, Professor of Philosophy

### *Foundational Ethics*

**(One of the following:)**

PHL 250	Philosophical Foundations for Ethical Understanding	3 credits
THL 250	Theological Foundations for Ethical Understanding	3 credits

### *Theological Ethics*

**(Two of the following:)**

THL 534	Introduction to Liberation Theology	3 credits
THL 563	Contemporary Moral Problems	3 credits
THL 564	Catholic Sexual Ethics	3 credits
THL 565	Catholic Social Teaching	3 credits

### *Philosophical Ethics*

**(Two of the following:)**

PHL 331	Moral Philosophy	3 credits
PHL 343	Ethics and the Professions	3 credits
PHL 354	Environmental Ethics	3 credits
PHL 359	History of Ethics	3 credits
PHL 368	Moral Psychology	3 credits
PHL 453	Ethics and Public Policy	3 credits
PHL 455	Health Care, Society and Values	3 credits

**(One additional course chosen from the lists above or from the following:)**

JPS 588	Christian Ethics of War and Peace	3 credits
SRP 457	Biomedical Ethics: Philosophical & Theological Approaches	3 credits
SRP 409	Race and Gender Relations: Moral and Ethical Dilemmas	3 credits

## APPLIED RESEARCH METHODS IN SOCIOLOGY AND ANTHROPOLOGY MINOR

**Program Description:** The Applied Research Methods minor introduces students to the tools and methods used to conduct and interpret qualitative and quantitative research about society. Students will learn how to design and conduct applied social research projects, including demography, survey research, focus groups, spatial analysis, and other tools used by commercial firms, government agencies, and non-governmental organizations.

**Contact:** Chair, Department of Sociology and Anthropology

**(All of the following:)**

SOC 209	Qualitative Methods in the Social Sciences	3 credits
SOC 212	Quantitative Methods in the Social Sciences	3 credits
SOC 214	Statistics for the Social Sciences	4 credits
SOC 470	Introduction to Geographic Information Systems	4 credits
SOC 497	Directed Independent Research	4 credits

## *ART HISTORY MINOR*

**Program Description:** The minor in Art History offers students a basic understanding of the history of visual culture. The study of Art History is fundamentally interdisciplinary and can complement majors in Theology, Philosophy, History, English, Psychology, Foreign Languages, and other majors in the Liberal Arts and the Sciences. Students who major in Studio Art may also pursue the Art History minor.

**Contact:** Associate Chair, Visual Arts, Department of Fine and Performing Arts

**(All of the following:)**

ART 219	History of Art (Western Art)	3 credits
ART 319	Art International (Non-Western Arts)	3 credits

**(Twelve credits from the following:)**

ART 349	Egyptian Art and Archaeology	3 credits
ART 350	Archaeology of Syria-Palestine	3 credits
ART 355	Greek Art and Archaeology	3 credits
ART 360	Art of the Middle Ages	3 credits
ART 361	Art of the Renaissance in Europe	3 credits
ART 362	Early Christian Art and Archaeology	3 credits
ART 363	Baroque Art	3 credits
ART 364	History of Architecture	3 credits
ART 365	Greek Art	3 credits
ART 366	Etruscan and Roman Art	3 credits
ART 367	Nineteenth Century Art	3 credits
ART 368	Survey of American Art	3 credits
ART 369	Modern European Art, 1900-1945	3 credits
ART 380	History and Criticism of the Cinema	3 credits
ART 383	History and Aesthetics of Photography	3 credits
ART 386	The History & Aesthetics Latin American Photography	3 credits
ART 391	History and Methods of Art History	3 credits
ART 392	Seminar in Art Criticism	3 credits
ART 397	Summer Art History Seminar	1-3 credits
ART 418	Jesus Through the Ages	3 credits
ART 428	Film And the Fine Arts	3 credits
ART 430	Selected Topics in Ancient Art and Archaeology	3 credits
ART 461	The City of Rome	3 credits
ART 465	Contemporary Art	3 credits
ART 466	Idea of Rome in the Arts	3 credits
ART 467	History of the Art of Spain and Her Colonies	3 credits
ART 468	Native American Art	3 credits
ART 480	Management of Arts Organizations	3 credits
ART 493	Directed Independent Readings	1-3 credit(s)
ART 497	Directed Independent Research	1-2 credit(s)
PHL 340	Aesthetics	3 credits

## ASIAN STUDIES MINOR

**Program Description:** Asian Studies is an interdisciplinary program designed to provide the undergraduate students with a broad understanding of Asian cultures and an awareness of the important historical and international events happening in the Asian world. This program is designed to build a solid foundation of philosophy, religion, history and political science for their further study in this field.

**Contact:** Jinmei Yuan, Associate Professor of Philosophy; Maorong Jiang, Director of Asian World Center.

**(All of the following:)**

HIS 103                      The Asian World                      3 credits

**(One of the following:)**

PHL 351                      Introduction to Chinese Philosophy                      3 credits

PHL 353                      Introduction to Buddhism                      3 credits

**(One of the following:)**

HIS 467                      Modern China                      3 credits

HIS 468                      Modern Japan                      3 credits

**(One of the following:)**

PLS 315                      Politics of Asia                      3 credits

PLS 415                      Government and Politics of PR China                      3 credits

*Electives*

**(Two of the following:)**

ANT 348                      Peoples and Cultures of Asia                      3 credits

ANT 349                      Peoples and Cultures of India                      3 credits

CHN 101                      Beginning Chinese I                      3 credits

CHN 102                      Beginning Chinese II                      3 credits

HIS 464                      Women, Marriage, and Family in East Asian Society                      3 credits

HIS 465                      Japanese Popular Culture                      3 credits

HIS 466                      Popular Culture in Traditional China and Japan                      3 credits

HIS 467                      Modern China                      3 credits

HIS 468                      Modern Japan                      3 credits

JPN 101                      Beginning Japanese I                      3 credits

JPN 102                      Beginning Japanese II                      3 credits

PHL 351                      Introduction to Chinese Philosophy                      3 credits

PHL 353                      Introduction to Buddhism                      3 credits

PLS 315                      Politics of Asia                      3 credits

PLS 415                      Government and Politics of PR China                      3 credits

SRP 434                      Philosophy of East Asian Literature and Film                      3 credits

THL 583                      Exploring Buddhism                      3 credits



## ATMOSPHERIC SCIENCES MINOR

**Program Description:** The Atmospheric Sciences minor explores a wide range of investigation within synoptic meteorology, forecasting, global climatology and climate change. The course work in the minor is designed to give the student a grasp of the various subdisciplines associated with the Atmospheric Sciences and allied Physical Sciences. Students may select either a set of courses emphasizing a specific area of interest (e.g. the meteorology of severe weather, global climate change, or analysis and forecasting) or a broad spectrum of courses representing diverse areas of inquiry within the atmospheric and earth sciences.

**Contact:** Chair, Department of Atmospheric Sciences

**(All of the following:)**

ATS 113	Introduction to Atmospheric Sciences	3 credits
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**(Fifteen credits from the following:)**

ATS 114	Introduction to Atmospheric Sciences Laboratory	1 credit
ATS 443	Environmental Geology	4 credits
ATS 533	Physical Climatology and Climate Change	3 credits
ATS 541	Atmospheric Diffusion, Air Pollution and Environmental Impact Analysis	3 credits
ATS 542	Radar Remote Sensing	3 credits
ATS 544	Hydrology	3 credits
ATS 545	Mesoscale Analysis	3 credits
ATS 553	Tropical Meteorology	3 credits
ATS 555	Meteorological Remote Sensing	3 credits
ATS 556	Introduction to Physical Oceanography	3 credits
ATS 561	Synoptic Meteorology I	3 credits
ATS 562	Synoptic Meteorology II	4 credits
ATS 571	Dynamic Meteorology I	3 credits
ATS 572	Dynamic Meteorology II	3 credits

## BEHAVIORAL AND COGNITIVE NEUROPSYCHOLOGY MINOR

**Program Description:** This program provides a systematic introduction to the neural basis of mental function. It includes research from experimental work done with both humans and animals, as well as findings from clinical populations. The goal of the minor is to provide a balanced, synthesized, and integrated view of what we know about the brain and its effects on cognition and behavior.

**Contact:** Chair, Department of Psychology

**(All of the following:)**

PSY 111	Introductory Psychology	3 credits
PSY 211	Introductory Statistics	3 credits
PSY 437	Physiological Psychology	3 credits

**(Nine credits from the following two groups:)\***

*Physiological Aspects of Neuropsychology*

PSY 361	Neuropsychology	3 credits
PSY 436	Sensation and Perception	3 credits
PSY 481	Drugs and Behavior	3 credits

*Cognitive and Association Aspects of Neuropsychology*

PSY 362	The Psychology of Memory	3 credits
PSY 431	Cognitive Psychology	3 credits
PSY 434	Learning: Basic Processes	3 credits

\*At least one course from each group

## BIBLICAL STUDIES MINOR

**Program Description:** The Biblical Studies minor examines historical, social, and literary contexts of the biblical texts, and their use in theological traditions. Students will explore the Old and New Testaments using the techniques of modern historical criticism.

**Contact:** Chair, Department of Theology

### *Old Testament*

**(One of the following:)**

THL 201	Reading the Old Testament	3 credits
THL 202	Creation and Apocalypse	3 credits
THL 203	Biblical Ancestors and Heroes	3 credits

### *New Testament*

**(One of the following:)**

THL 205	Sickness, Disability, and Healing in the Bible	3 credits
THL 207	Reading the New Testament	3 credits
THL 208	New Testament Communities and Their Stories	3 credits
THL 209	The Synoptic Gospels: The Life of Jesus	3 credits
THL 210	Applying the Memory of Jesus: The Comm. of John	3 credits
THL 212	Paul and His Legacy	3 credits

### *Biblical Studies*

**(Six credits from the following:)**

THL 501	The Pentateuch	3 credits
THL 502	Old Testament Themes	3 credits
THL 503	The Prophetic Literature of the Old Testament	3 credits
THL 504	The Wisdom Literature of the Old Testament	3 credits
THL 507	Gospel of Matthew	3 credits
THL 508	The Gospel of Mark	3 credits
THL 509	The Gospel of Luke and the Acts of the Apostles	3 credits
THL 511	The Gospel of John	3 credits
THL 514	The Pastoral Epistles	3 credits
THL 516	The Book of Revelation (The Apocalypse)	3 credits
THL 517	The Parables of Jesus	3 credits
THL 518	Women and the Bible	3 credits
THL 520	The Dead Sea Scrolls	3 credits
THL 524	History of Ancient Israel	3 credits
THL 525	Archaeological Fieldwork and Analysis	3 credits
THL 526	Archaeology of Roman Palestine	3 credits
THL 527	Study Tour of Biblical Israel	3 credits
THL 529	Translations of the Bible	3 credits

**(Six additional credits chosen from the Biblical Studies list or from the following:)**

### *Language*

GRK 101	Beginning Greek I	3 credits
GRK 102	Beginning Greek II	3 credits
HEB 101	Introduction to Classic Hebrew I	3 credits
HEB 102	Introduction to Classical Hebrew II	3 credits
HEB 201	Introduction to Classical Hebrew Poetry	3 credits

### *History/Archaeology*

CNE 315	Religions in the Greco-Roman World	3 credits
CNE 401	Greek History to the Peloponnesian War	3 credits
CNE 403	Roman Republic	3 credits
CNE 404	Roman Empire	3 credits
THL 350	Archaeology of Syria-Palestine	3 credits

## *BIOLOGICAL PHYSICS MINOR*

**Program Description:** The Biological Physics minor provides an opportunity to apply the concepts and methods of the physicist to advance our understanding of the life sciences. Students pursuing careers in medicine or the life sciences can use this minor to improve their preparation for the interdisciplinary nature of modern science.

**Contact:** Chair, Department of Physics

**(All of the following:)**

BIO 211	General Biology: Molecular and Cellular	4 credits
PHY 211	General Physics I	4 credits
PHY 212	General Physics II	4 credits
PHY 301	Modern Physics	3 credits

**(One of the following:)**

PHY 351	Physics in Medicine	3 credits
PHY 353	Introduction to Biological Physics	3 credits

## *BIOLOGY MINOR*

**Program Description:** The Biology minor introduces students to foundational and advanced courses across the major subdisciplines of modern biology. Lecture and lab experiences are grounded on fundamental principles. In addition to the General Biology courses, a diversity of life science topics are available in upper division courses at the cellular, molecular, organismal, and ecology and evolutionary biology levels. Students can design a study plan which allows an in-depth exploration of one area or a broader survey of several subdisciplinary areas of biology.

**Contact:** Chair, Department of Biology

**(All of the following:)**

BIO 211	General Biology: Molecular and Cellular	4 credits
BIO 212	General Biology: Organismal and Population	4 credits
Ten additional credits (three or four courses) in BIO courses numbered 300 and above.		10 credits

At least one of the upper-level courses must include a one- or two-hour laboratory component.

Courses in departments other than Biology may not be applied towards this minor

BIO 490, BIO 493, BIO 495, and BIO 497 cannot be applied towards this minor.

## *BLACK STUDIES MINOR*

**Program Description:** The Black Studies minor offers students the opportunity to examine developments and ideas in Africa and in the African diaspora from an interdisciplinary and multidisciplinary perspective. As such, it provides opportunities to explore social, political, intellectual and artistic currents in Africa, the Americas, and Europe with relevance to Africans or to Blacks of the diaspora as well as their arts, culture, and literature.

**Contact:** Director, Black Studies Program

*History/ Political Science*

**(One of the following:)**

BKS 106	The African World	3 credits
BKS 311	Politics of Africa	3 credits
BKS 367	The African-American Experience	3 credits
BKS 372	Equality, Minorities, and Public Policy	3 credits
BKS 384	Black History Through Literature	3 credits
BKS 388	Origins of Modern Africa	3 credits
BKS 482	Race in America: Idea and Reality	3 credits
BKS 484	Nationalist Movements in Colonial Africa	3 credits

BKS 485	Society and Belief Systems in Africa	3 credits
BKS 487	History of West Africa	3 credits
BKS 489	Southern Africa: The Politics of Race	3 credits
<i>Anthropology/Sociology/Psychology</i>		
<b>(One of the following:)</b>		
BKS 309	The Urban Social System	3 credits
BKS 341	American Cultural Minorities	3 credits
PSY 478	Multicultural Issues in Psychology	3 credits
<i>Literature/ Fine Arts</i>		
<b>(One of the following:)</b>		
ART 319	Art International	3 credits
BKS 390	Introduction to African Literature	3 credits
BKS 393	African-American Literature	3 credits
BKS 398	Literature of Francophone Africa	3 credits
MUS 353	Jazz in American Culture	3 credits
Nine additional credits of any BKS course.		9 credits

### *CHRISTIAN LIFE STUDIES MINOR*

**Program Description:** The minor in Christian Life Studies offers students an opportunity to explore the practical ways in which Christians “grow in the image and likeness of God,” as that question has been addressed within the disciplines of Christian ethics and/or Christian spirituality. In Christian Ethics, students investigate the basic principles, values, and practices that ground an authentic moral life. In Christian Spirituality, students study how the tradition has addressed the human response to God in its personal and ecclesial contexts. The intentional breadth and flexibility of this minor give the opportunity to bridge the disciplines of Christian Ethics and Christian Spirituality and encourage students to follow and deepen personal interests.

**Contact:** Chair, Department of Theology

<b>(All of the following:)</b>		
THL 250	Theological Foundations for Ethical Understanding	3 credits
<i>Ethics and/or Spirituality</i>		
<b>(Fifteen credits from the following:)</b>		
THL 416	For the Greater Glory	3 credits
THL 457	Biomedical Ethics	3 credits
THL 561	Finding God in Daily Life: Prayer and Discernment	3 credits
THL 563	Contemporary Moral Problems	3 credits
THL 564	Christian Sexual Ethics	3 credits
THL 565	Catholic Social Teaching	3 credits
THL 575	Foundations of Christian Spirituality	3 credits
THL 588	Christian Ethics of War and Peace	3 credits

### *CLASSICAL AND NEAR EASTERN CIVILIZATIONS MINOR*

**Program Description:** The Classical and Near Eastern Civilizations minor offers a broad range of courses in the literary, religious, philosophical, political, and material culture of the Near Eastern, Greek, and Roman worlds. Students will study the institutions of these cultural forms, as well as the dynamic changes in these institutions and the interrelationships between them.

**Contact:** Chair, Department of Classical and Near Eastern Studies

<b>(All of the following:)</b>		
Eighteen credits of 300-, 400- or 500-level CNE courses.		18 credits

## COMMUNICATION STUDIES MINOR

**Program Description:** The minor in Communication Studies provides students an opportunity to develop communication competencies, at both theoretical and applied levels. Communication is examined through a variety of contexts, including interpersonal communication, families, small groups, and organizations. The minor is designed to allow students to explore Communication Studies by providing structure and flexibility to give them a way to supplement their major/career goals.

**Contact:** Chair, Department of Communication Studies

**(All of the following:)**

COM 202	Communication Theories	3 credits
COM 362	Small Group Communication	3 credits

**(One of the following:)**

COM 352	Advanced Presentational Forms	3 credits
COM 314	Managerial Communication (CoBA only)	3 credits

Nine additional credits in COM courses numbered 200 and above. 9 credits

Only six credits of forensics courses (COM 201, 301, 401, 501) may count toward this minor.

## COMPARATIVE POLITICS MINOR

**Program Description:** The minor in Comparative Politics explores politics in different nation-states. It focuses on the unique functioning of states while at the same time looking for explanations for common global phenomena such as democratization, economic and political integration, and cultural and ethnic fragmentation. The minor is recommended for students intending to seek employment in business, government, and public service organizations with global reach.

**Contact:** Chair, Department of Political Science and International Relations

**(All of the following:)**

PLS 215	Comparative Political Systems	3 credits
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**(Fifteen credits from the following:)**

PLS 301	Western European Political Systems	3 credits
PLS 303	Russia and the USSR Successor States	3 credits
PLS 305	Eastern European Political Systems	3 credits
PLS 311	Politics of Africa	3 credits
PLS 313	Politics of Middle East	3 credits
PLS 314	Politics of Post-Communist South Eurasia	3 credits
PLS 315	Politics of Asia	3 credits
PLS 317	Latin American Government and Politics	3 credits
PLS 319	Politics of Developing Areas	3 credits
PLS 401	The European Union	3 credits
PLS 405	Ethnicity, Nationalism and Democracy	3 credits
PLS 407	Revolutions and Revolutionary Movements	3 credits
PLS 410	Seminar on Comparative Politics	1-3 credits
PLS 415	Government and Politics of PR of China	3 credits
PLS 435	Global Poverty and Development	3 credits
PLS 468	Christianity and Power: A Russian Case Study	3 credits
PLS 481	Poverty, Development, and Public Policy	3 credits
PLS 510	The New Institutionalism	3 credits

## COMPUTER SCIENCE MINOR

**Program Description:** Computer Science is the study of computation, encompassing all aspects of problem solving. This includes the design and analysis of algorithms (step-by-step sequences of instructions for carrying out some task), the formalization of algorithms as programs, and the development of computing devices for executing those programs. The study of Computer Science emphasizes logical and critical thinking, as well as an understanding of technology. A minor in Computer Science provides a strong foundation in computing that can complement other major fields and also prepare graduates for assessing the technology they use in everyday life.

**Contact:** Chair, Department of Computer Science

**(All of the following:)**

CSC 221	Computer Programming I	3 credits
CSC 222	Computer Programming II	3 credits
Twelve additional Computer Science credits chosen from courses numbered 200 and above.		12 credits

CSC 493 and CSC 495 cannot be applied toward this minor.

## CRIMINAL JUSTICE POLICY MINOR

**Program Description:** The Criminal Justice Policy minor introduces students to the history, current structure, and processes of the American criminal justice system, including its principal components, the ethical issues surrounding each of those components, and the research that evaluates the impact of the system. It provides an introduction to the perspectives of other social systems and cultures, as well as the contemporary competing models of what a criminal justice system ought to be, both domestic and cross-cultural.

**Contact:** Chair, Department of Sociology and Anthropology

**(All of the following:)**

PLS 320	Judicial Process	3 credits
PLS 337	Constitutional Law	3 credits
SOC 320	Sociology of Deviant Behavior	3 credits
SOC 321	Sociology of the Criminal Justice System	3 credits
SOC 341	American Cultural Minorities	3 credits
SOC 423	Law and Society	3 credits



## DANCE MINOR

**Program Description:** A minor in Dance offers training in ballet coupled with exposure to jazz, tap, and modern dance technique. Students who pursue this study option will also have the opportunity to publicly perform a variety of dance styles as well as work with professional and peer choreographers and instructors.

**Contact:** Coordinator of Dance, Department of Fine and Performing Arts

**(All of the following:)**

DAN 310	Advanced I Dance Studies 1	3 credits
DAN 398	Performance -Third Year	1 credit
DAN 498	Performance - Fourth Year	1 credit

**(Thirteen credits from the following:\*)**

DAN 101	Introduction to the Dance	3 credits
DAN 110	Beginning Dance Studies I	3 credits
DAN 111	Beginning Dance Studies II	3 credits
DAN 112	Beginning Dance Studies III	3 credits
DAN 210	Intermediate Dance Studies I	3 credits
DAN 211	Intermediate Dance Studies II	3 credits
DAN 212	Intermediate Dance Studies III	3 credits
DAN 311	Advanced I Dance Studies II	3 credits
DAN 312	Advanced I Dance Studies III	3-4 credits
DAN 410	Advanced II Dance Studies I	3-4 credits
DAN 411	Advanced II Dance Studies II	3-4 credits
DAN 412	Advanced II Dance Studies III	3-4 credits
DAN 492	Advanced II Ballet	1-3 credits
DAN 493	Advanced II Ballet	1-3 credits

\*Chosen after consultation with the Coordinator of Dance for assignment to the appropriate level.

## ECOLOGY/ EVOLUTION MINOR

**Program Description:** The Ecology/Evolution minor provides students with the opportunity to obtain a deeper understanding of the underlying principles that have shaped life forms and life history patterns. Course offerings encompass biodiversity as a major theme and include a wide array of field experiences and opportunities to study plants and animals in a variety of ecosystems: some are within the US; others lie outside US boundaries.

**Contact:** Chair, Department of Biology

**(All of the following:)**

BIO 212	General Biology: Organismal and Population	4 credits
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**(Fourteen credits from the following:)**

BIO 341	General Botany	4 credits
BIO 385	The Ecology, Geography and Health of Lakes	4 credits
BIO 401	Biometry	4 credits
BIO 435	Field Biology in the Southeastern United States	4 credits
BIO 440	Field Biology of the Desert Southwest	4 credits
BIO 455	Biology of the Protists	4 credits
BIO 481	Terrestrial Ecology	4 credits
BIO 483	Vertebrate Natural History	3 credits
BIO 484	Vertebrate Natural History Lab	1 credit
BIO 485	Marine and Freshwater Ecology	3 credits
BIO 486	Freshwater Ecology Laboratory	1 credit
BIO 487	Marine Ecology Laboratory	2 credits
BIO 497	Directed Independent Research	1 -3 credits
BIO 561	Entomology	4 credits
BIO 581	Evolution	4 credits

## ENGLISH MINOR

**Program Description:** The minor in English provides students with a strong training in essential academic and professional skills, including critical analysis and writing. Foundational courses in the minor familiarize students with the discipline of English studies and provide a basis for further advanced courses to allow the student to develop his or her interests in a variety of areas.

**Contact:** Chair, Department of English

**(All of the following:)**

ENG 201	Interpreting Texts	3 credits
ENG 202	Entering a Professional Dialogue	3 credits
Twelve additional credits from ENG courses numbered 300 or above.		12 credits

## ENVIRONMENTAL POLICY MINOR

**Program Description:** The Environmental Policy minor focuses on the ethical, cultural, political, economic, and scientific factors that facilitate or impede environmental problem-solving. The minor provides students with a grasp of national and international environmental laws and policies designed to address current environmental concerns. Students will study the political and cultural contexts that shape the relationship between human interests and environmental concerns, including the roles played by science, government, business, and civil society.

**Contact:** Director, Environmental Science Program

**(All of the following:)**

EVS 333	Environmental Politics and Policy	3 credits
EVS 354	Environmental Ethics	3 credits
EVS 355	Environment and Society	3 credits

**(One of the following:)**

ATS 113	Introduction to Atmospheric Sciences	3 credits
BIO 141	Charles Darwin: Life and Impact	3 credits
CHM 105	Introductory Chemistry	3 credits
EVS 210	Surviving on the Earth: Geological Hazards and Society	3 credits
EVS 390	Environmental Science	3 credits
EVS 443	Environmental Geology	4 credits
PHY 187	Introduction to Physics	3 credits

**(One of the following:)**

ATS 113	Introduction to Atmospheric Sciences	3 credits
<i>And</i>		
ATS 114	Introduction to Atmospheric Sciences Lab	1 credits
BIO 211	General Biology: Molecular and Cellular	4 credits
BIO 212	General Biology: Organismal and Population	4 credits
CHM 203	General Chemistry I	3 credits
<i>And</i>		
CHM 204	General Chemistry I Lab	1 credits

**(One of the following:)**

EVS 307	Demography: World Population Issues	3 credits
EVS 353	Environmental Economics	3 credits
EVS 374	Management of Environmental Risk	3 credits
EVS 452	Science, Media and Risk	3 credits
EVS 455	Food, Society and Environment	3 credits
PHL 453	Ethics and Public Policy	3 credits



## ENVIRONMENTAL SCIENCE MINOR

**Program Description:** The Environmental Science minor explores a wide range of scientific inquiry associated with the physical and social sciences. Students may choose to construct a broad-based minor with course work from a number of participating departments or from a set of courses that emphasize a specific field (e.g. Global Change Issues). The minor is designed for students interested in pursuing careers within environmental education, environmental law or environmental monitoring and regulation. The minor is suited to journalism and mass communication students who desire a broad background in environmental issues covered by the mass media.

**Contact:** Director, Environmental Science Program

### (One of the following:)

ATS 113	Introduction to Atmospheric Sciences	3 credits
<i>And</i>		
ATS 114	Introduction to Atmospheric Sciences Lab	1 credits
BIO 211	General Biology:Molecular and Cellular	4 credits
BIO 212	General Biology: Organismal and Population	4 credits
CHM 112	Fundamentals of Biological Chemistry	3 credits
<i>And</i>		
CHM 113	Fundamentals of Biological Chemistry Lab	1 credits
CHM 203	General Chemistry I	3 credits
<i>And</i>		
CHM 204	General Chemistry I Lab	1 credits

### (Fourteen credits from the following:\*)

#### *Environmental and Atmospheric Sciences*

EVS 443	Environmental Geology	4 credits
EVS 533	Inadvertent Climate Modification	3 credits
EVS 541	Atmospheric Diffusion, Air Pollution and Environmental Impact Analysis	3 credits
EVS 544	Hydrology	3 credits
EVS 553	Tropical Meteorology	3 credits
EVS 556	Introduction to Physical Oceanography	3 credits

#### *Biology*

EVS 335	Zoology	4 credits
EVS 341	General Botany	4 credits
EVS 351	Microbiology	4 credits
EVS 390	Environmental Science	3 credits
EVS 435	Field Biology in the Southeastern United States	4 credits
EVS 440	Field Biology of the Desert Southwest	4 credits
EVS 481	Terrestrial Ecology	4 credits
EVS 483	Vertebrate Natural History Lecture	3 credits
EVS 484	Vertebrate Natural History Laboratory	1 credit
EVS 485	Marine and Freshwater Ecology	3 credits
EVS 486	Freshwater Ecology Laboratory	1 credit
EVS 487	Marine Ecology Laboratory	2 credits
EVS 512	Microbial Ecology	3 credits
EVS 513	Microbial Ecology Laboratory	3 credits
EVS 523	Environmental Toxicology	3 credits
EVS 545	Applied Limnology and Water Quality	4 credits
EVS 549	Environmental Physiology	3 credits
EVS 561	Entomology	4 credits
EVS 581	Evolution	4 credits

#### *Other Courses*

EVS 506	Environmental Chemistry and Natural Resources	3 credits
EVS 491	Senior Seminar	1 credit

\*No more than two courses may be chosen from any group.

## EUROPEAN STUDIES MINOR

**Program Description:** The minor in European Studies is a broad interdisciplinary program whose aim is to promote understanding of Western Europe, while also exploring the diversity of its many cultures by exploring the historical experience, literary and cultural expressions, and material and political course of the region.

**Contact:** Chair, Department of History

### *History*

#### **(Two of the following:)**

HIS 317	Inside Hitler's Germany-A Study of Nazi Tyranny	3 credits
HIS 319	Eastern Europe 1918-1989	3 credits
HIS 320	World War II in Europe: Triumph over Tyranny	3 credits
HIS 321	Tudor and Stuart England	3 credits
HIS 407	The Early Middle Ages	3 credits
HIS 408	The High and Late Middle Ages	3 credits
HIS 409	The Crusades: A Mirror of Medieval Society	3 credits
HIS 411	Europe 1350-1500: The Dawn of a New Age	3 credits
HIS 412	European Society, Religion, and Statecraft, 1500-1648	3 credits
HIS 413	Absolutism, Reason, and Revolt, 1648-1789	3 credits
HIS 415	19th Century Europe	3 credits
HIS 417	Europe Since 1919	3 credits
HIS 421	The Vikings	3 credits
HIS 544	History of Ireland	3 credits
HIS 545	Modern France	3 credits
HIS 546	Modern Germany	3 credits
HIS 547	Contemporary Europe Since 1945	3 credits

### *Philosophy/ Political Science*

#### **(One of the following:)**

PHL 373	History of Modern Philosophy	3 credits
PHL 374	History of 19th-Century Philosophy	3 credits
PHL/PLS 459	Marxism	3 credits
PLS 401	The European Union	3 credits

### *Literature*

#### **(One of the following:)**

ENG 340	English Literature 1: Medieval/Early Renaissance	3 credits
ENG 341	English Literature II: Late Renaissance/Neo-Classical	3 credits
ENG 342	English Literature III: Romantic/Victorian	3 credits
ENG 330	Introduction to Irish Literature	3 credits
ENG 430	Studies in Irish Literature	3 credits
ENG 431	Irish Drama	3 credits
ENG 432	The Irish Renaissance	3 credits
ENG 433	Contemporary Irish Literature	3 credits
ENG 436	Studies in Irish Literary History and Culture	3 credits
ENG 450	Contemporary British Literature	3 credits
FRN 327	French Literature before the French Revolution	3 credits
FRN 328	French Literature after the French Revolution	3 credits
FRN 522	French Civilization before the French Revolution	3 credits
FRN 524	French Civilization after the French Revolution	3 credits
FRN 525	Paris, Ville du Monde (Paris City of the World)	3 credits
GER 317	German Literature and Civilization I	3 credits
GER 318	German Literature and Civilization II	3 credits
GER 328	Studies in Contemporary German Culture	3 credits
GER 525	The New Berlin	3 credits
GER 568	The Multiplicity of German Culture	3 credits
GER 572	Reading German Films	3 credits
SPN 321	Civilization and Culture of Spain	3 credits

SPN 327	Survey of Peninsular Literature	3 credits
SPN 541	Medieval Spanish Literature	3 credits
SPN 544	Spanish Peninsular Narrative	3 credits
SPN 549	Twentieth-Century Spanish Drama	3 credits
SPN 568	Multicultural Spain through Letters, Politics, Theater and Film	3 credits

*History of Art*

**(One of the following:)**

ART 360	Art of the Middle Ages	3 credits
ART 361	Art of the Renaissance in Europe	3 credits
ART 363	Baroque Art	3 credits
ART 369	Modern European Art	3 credits
	One additional course chosen from the lists above.	3 credits

## FILM STUDIES

**Program Description:** Film Studies is an inter-disciplinary minor that provides students with an appreciation of film as an expressive art form, with emphasis on film history, criticism, theory, aesthetics, and narrative techniques.

**Contact:** Brent Spencer, Professor of English

**(All of the following:)**

ART/COM/ENG 380	History and Criticism of Cinema	3 credits
ENG 300	Introduction to Creative Writing	3 credits

**(Twelve credits from the following:)**

ENG 301	Creative Writing: Narrative Forms	3 credits
ENG 403	Seminar in Creative Writing	3 credits
ENG 404	Screenwriting	3 credits
COM/ENG 470	Seminar in Film Studies	3 credits
ART/THR 428	Film and the Fine Arts	3 credits
JMC 325	Digital Video Photography	3 credits
FRN 572	French Cinema	3 credits
GER 572	Reading German Films	3 credits
SPN 571	Latinos in the Movies	3 credits
PHL 434	Philosophy of East Asian Literature and Film	3 credits

## FRENCH MINOR

**Program Description:** This program of study is designed to take students beyond a basic/core understanding of the fundamentals of the French language to a deeper understanding and proficiency. The minor provides the student with more depth and understanding of the accepted national standards as put forth by the American Council on the Teaching of Foreign Languages (ACTFL): communication, culture, connections, comparisons/contrasts, and community. This minor will enhance the student's understanding and interaction with other languages and cultures and thus, would be a valuable component to any field of study.

**Contact:** Chair, Department of Modern Languages and Literatures

**(Eighteen credits from the following:)**

FRN 201	Intermediate French I	3 credits
FRN 202	Intermediate French II	3 credits
FRN 311	Advanced French I	3 credits
FRN 312	Advanced French II	3 credits
FRN 314	Business French Communication	3 credits
FRN 325	Introduction to Literary Analysis	3 credits
FRN 327	French Literature Before the French Revolution	3 credits
FRN 328	French Literature After the French Revolution	3 credits
FRN 335	French Practicum	1 credit

FRN 411	Advanced Spoken French	3 credits
FRN 412	Advanced Written French	3 credits
FRN 493	Directed Independent Readings	1-3 credits
FRN 522	French Civilization Before the French Revolution	3 credits
FRN 524	French Civilization After the French Revolution	3 credits
FRN 525	Paris, Ville de Monde (Paris City of the World)	3 credits
FRN 540	French Literature: Middle Ages	3 credits
FRN 542	French Literature: Renaissance	3 credits
FRN 543	French Literature: 17 <sup>th</sup> Century	3 credits
FRN 544	French Literature: 18 <sup>th</sup> Century	3 credits
FRN 548	French Literature: 19 <sup>th</sup> Century	3 credits
FRN 549	French Literature: 20 <sup>th</sup> Century	3 credits
FRN 551	Women Writers in French and Francophone Literature	3 credits
FRN 557	French Poetry	3 credits
FRN 564	History of the French Language	3 credits
FRN 572	French Cinema	3 credits

### *GERMAN MINOR*

**Program Description:** This program of study is designed to take students beyond a basic/core understanding of the fundamentals of the German language to a deeper understanding and proficiency. The minor provides the student with more depth and understanding of the accepted national standards as put forth by the American Council on the Teaching of Foreign Languages (ACTFL): communication, culture, connections, comparisons/contrasts, and community. This minor will enhance the student's understanding and interaction with other languages and cultures and thus, would be a valuable component to any field of study.

**Contact:** Chair, Department of Modern Languages and Literatures

**(Eighteen credits from the following:)**

GER 201	Intermediate German I	3 credits
GER 202	Intermediate German II	3 credits
GER 311	Advanced German I	3 credits
GER 312	Advanced German II	3 credits
GER 317	German Lit. and Civil. I: From the Middle Ages-1871	3 credits
GER 318	German Lit. and Civil. II: From 1871 to the Present	3 credits
GER 321	German for Business and Economics	3 credits
GER 328	Studies in Contemp. German Culture: The Last 25 Years	3 credits
GER 335	German Practicum	1 credit
GER 406	German Immigrant Culture in the United States	3 credits
GER 411	Introduction to German Literature	3 credits
GER 493	Directed Independent Readings	1-3 credits
GER 495	Directed Independent Study	1-3 credits
GER 497	Directed Independent Research	3 credits
GER 525	The New Berlin	3 credits
GER 527	German Literature of the 19 <sup>th</sup> Century	3 credits
GER 529	Contemporary German Literature	3 credits
GER 531	German Romanticism: Literature, Art and Music	3 credits
GER 541	German Narrative Prose	3 credits
GER 543	German Drama	3 credits
GER 545	German "Novelle": 19 <sup>th</sup> and 20 <sup>th</sup> Centuries	3 credits
GER 568	The Multiplicity of German Culture	3 credits
GER 572	Reading German Films	3 credits

## *GLOBALIZATION: SOCIAL AND CULTURAL ISSUES MINOR*

**Program Description:** The Globalization minor introduces students to the social, cultural, technological and environmental issues surrounding globalization. New information technologies and emerging world markets have accelerated global flows of money, people, and ideas, so that people around the world are increasingly in contact through integrated but highly volatile world networks. The resulting globalization presents people and nations with a startling array of possibilities and problems, and most human enterprises and problems now have significant global dimensions.

**Contact:** Chair, Department of Sociology and Anthropology

### *Globalization Concepts and Dimensions*

#### **(All of the following:)**

SOC 307	Demography: World Population Issues	3 credits
SOC 335	Technology and Human Values	3 credits
SOC 350	Social Change	3 credits
SOC 355	Environment and Society: Sociological Perspectives	3 credits

### *Globalization Issues and Areas*

#### **(Two of the following:)**

ANT 319	Language, Culture, and the Individual	3 credits
ANT 342	Peoples and Cultures of Sub-Saharan Africa	3 credits
ANT 346	Peoples and Cultures of Latin America	3 credits
ANT 347	Peoples and Cultures of Africa and the Middle East	3 credits
ANT 348	Peoples and Cultures of Asia	3 credits
SOC 317	Global Health Issues	3 credits
SOC 360	Gender, Society and Culture	3 credits

## *HEALTH ADMINISTRATION AND POLICY MINOR*

**Program Description:** The minor in Health Administration and Policy is a program of education that is interdisciplinary and structured to develop the student's understanding of the fundamental issues of administration and policy arising within the field of health care. The minor serves to provide the student with a grasp of the fundamentals of health care at the levels of sociology, ethics, finance, public policy, and organizational policy.

**Contact:** Director, Health Administration and Policy Program

#### **(All of the following:)**

HAP 200	Introduction to Health Care Administration	3 credits
HAP 215	Sociology of Health Care	3 credits
HAP 310	Health Finance and Budgeting	3 credits
HAP 334	Public Policy and Health Care	3 credits
HAP 390	Health Communication	3 credits
One additional course chosen from HAP courses numbered 300 or above.		3 credits

## *HISTORICAL AND SYSTEMATIC THEOLOGY MINOR*

**Program Description:** The minor in Historical and Systematic Theology offers students an opportunity to explore the development of the Christian theological tradition in its historical complexity. The minor focuses on doctrinal themes such as Trinitarian thought, Christology, and Ecclesiology, but these themes are always treated in the context of their historical development. The minor in Historical and Systematic Theology focuses intensely on the conceptual coherence of the core beliefs about the nature of God, God's involvement in the world, and the mission of the Church in the world.

**Contact:** Chair, Department of Theology

### *Scripture*

#### **(One of the following:)**

THL 201	Reading the Old Testament	3 credits
THL 202	Creation and Apocalypse	3 credits
THL 203	Biblical Ancestors and Heroes	3 credits
THL 205	Sickness, Disability, and Healing in the Bible	3 credits
THL 207	Reading the New Testament	3 credits
THL 208	New Testament Communities and Their Stories	3 credits
THL 209	The Synoptic Gospels: The Life of Jesus	3 credits
THL 210	Applying the Memory of Jesus: The Comm. of John	3 credits
THL 212	Paul and His Legacy	3 credits

### *Christian Theology*

#### **(One of the following:)**

THL 324	Scripture & Theology: The Birth of Christian Doctrine	3 credits
THL 325	Catholicism: Creed and Question	3 credits
THL 326	Defending the Christian Faith	3 credits
THL 330	Jesus Christ and the Salvation of the World	3 credits
THL 331	Jesus Christ: Liberator	3 credits
THL 335	Jesus Christ Yesterday and Today	3 credits
THL 338	Eucharist: Liturgical Theology and Practice	3 credits
THL 339	Theology of the Church and Sacraments	3 credits
THL 341	Ecclesiology in Context: The Church in El Salvador	3 credits
THL 344	Theology of Christian Marriage	3 credits

### *Historical-Doctrinal Theology*

#### **(Three of the following:)**

THL 530	Contemporary Catholic Theologians	3 credits
THL 531	Studies in Early Christianity	3 credits
THL 533	Ecclesiology: Contemporary Church Questions	3 credits
THL 534	Introduction to Liberation Theology	3 credits
THL 535	Doctrinal Development: Christology	3 credits
THL 537	Doctrinal Development: Sin and Grace	3 credits
THL 538	Seminar in Christian Anthropology	3 credits
THL 539	Seminar in Christian Eschatology	3 credits
THL 540	Ecclesiology: The Documents of Vatican II	3 credits
THL 552	Studies in Medieval Christianity	3 credits
THL 555	Major Theologian	3 credits
THL 580	Christianity and Modern Humanism	3 credits
One additional course from the 300- and 500-level courses listed above.		3 credits

## *HISTORY MINOR*

**Program Description:** The History minor provides students with historical perspective and insight into the issues, events, ideas, and values that constitute the human experience. Students will demonstrate an understanding of the discipline of History, its methods and purposes. Students will learn the necessary analytic and communication skills to think critically about a variety of societies and cultures. Students will have the tools to integrate their understanding of the human experience across the academic community and their community at large.

**Contact:** Chair, Department of History

**(All of the following:)**

Eighteen credits in HIS courses numbered 300 and above.\* 18 credits

\*College of Business Administration/School of Nursing students are required to have at least one course in the non-Western World, 100-level or above.

## *HISTORY AND PHILOSOPHY OF SCIENCE MINOR*

**Program Description:** This interdisciplinary minor introduces students to the key historical events in the emergence of science and to the philosophical debates about what counts as science, theories of scientific method, realism and anti-realism, and the role of values in science.

**Contact:** Eugene E. Selk, Associate Professor of Philosophy

**(All of the following:)**

PHL 107 Critical and Historical Introduction to Philosophy 3 credits

**(Three of the following:)**

BIO 141 Charles Darwin: Life and Impact 3 credits

ECO 508 Development of Political Economy 3 credits

HIS 335 The Scientific Revolution 3 credits

HIS 431 Mathematical History, Philosophy and Ethics 3 credits

PLS 362 Conservative Political Thought 3 credits

PHY 147 Einstein and Modern Physics 3 credits

PSY 424 History and Systems of Psychology 3 credits

SOC 301 Social and Cultural Theory 3 credits

**(Two of the following:)**

PHL 333 Philosophy of the Human Sciences 3 credits

PHL 334 Philosophy of the Natural Sciences 3 credits

PHL 420 Science and Religion 3 credits

## *HISTORY OF PHILOSOPHY MINOR*

**Program Description:** The study of the History of Philosophy is an essential part of mastering the discipline of philosophy. The minor introduces students to the key historical figures, issues, and themes in the development of philosophy.

**Contact:** Associate Chair, Department of Philosophy

**(All of the following:)**

PHL 107 Critical and Historical Introduction to Philosophy 3 credits

**(Two of the following:)**

PHL 370 History of Classical Greek Philosophy 3 credits

PHL 372 History of Medieval Philosophy 3 credits

PHL 373 History of Modern Philosophy 3 credits

**(Two of the following:)**

PHL 311	Utopian Thought	3 credits
PHL 351	Introduction to Chinese Philosophy	3 credits
PHL 353	Introduction to Buddhism	3 credits
PHL 359	History of Ethics	3 credits
PHL 366	St. Thomas and Thomism	3 credits
PHL 367	American Philosophy	3 credits
PHL 370	History of Classical Greek Philosophy	3 credits
PHL 371	History of Hellenistic Philosophy	3 credits
PHL 372	History of Medieval Philosophy	3 credits
PHL 373	History of Modern Philosophy	3 credits
PHL 374	History of 19th-Century Philosophy	3 credits
PHL 410	Stoicism	3 credits
PHL 459	Marxism	3 credits
PHL 461	The Role of Philosophy in Theology	3 credits
PHL 462	The Thought of John Paul II	3 credits
PHL 463	Phenomenology	3 credits
PHL 465	American Pragmatism	3 credits
PHL 467	Existentialism	3 credits
PHL 469	Contemporary Analytic Philosophy	3 credits
PHL 480	Philosophical Classics	3 credits
PHL 481	A Major Philosopher	3 credits

One additional upper-level (300 and above) PHL course. 3 credits

Neither PHL 320 nor PHL 492 may be applied toward this minor.

### *INTERACTIVE WEB DESIGN MINOR*

**Program Description:** The World Wide Web has emerged as a universal medium for presentation, communication, and commerce. The Interactive Web Design minor enables the student to master the technical and artistic skills needed to create interactive media for the Web. This minor combines the programming concepts and skills required to develop applications for the Web with the artistry of graphic design and multimedia presentation.

**Contact:** Chair, Department of Computer Science, Director, Graphic Design Program

**(All of the following:)**

CSC 221	Computer Programming I	3 credits
CSC 551	Web Programming	3 credits
JMC 381	Computer Illustration	3 credits
JMC 382	Web Design	3 credits
JMC 423	Multimedia Design	3 credits

**(One of the following:)**

CSC 121	Computer and Scientific Thinking	3 credits
CSC 222	Computer Programming II	3 credits



## *INTERNATIONAL RELATIONS MINOR*

**Program Description:** International Relations examines global governance. Among the core issues are international conflict, inter-state cooperation, growing global integration, the role of international institutions and global nonprofit organizations, and the development and extension of international law. This minor is recommended for those seeking employment in the US State Department, Department of Defense, The United Nations, international business, and global non-profits.

**Contact:** Chair, Department of Political Science and International Relations

**(All of the following:)**

PLS 340 International Politics 3 credits

**(Fifteen credits from the following:)**

PLS 341	Issues and Challenges in American Foreign Policy	3 credits
PLS 342	Foreign Policy and Diplomacy of Major Powers	3 credits
PLS 343	National Security and Strategic Studies	3 credits
PLS 345	International Political Economy	3 credits
PLS 347	International Regimes	3 credits
PLS 435	Global Poverty and Development	3 credits
PLS 440	Seminar on International Studies	1-3 credits
PLS 444	Nonviolence and Peaceful Resolution of Conflict	3 credits
PLS 451	Theories of Peace and World Order	3 credits
PLS 472	International Conflict	3 credits
PLS 481	Poverty, Development, and Public Policy	3 credits
PLS 537	International Law	3 credits

## *JUSTICE AND PEACE STUDIES MINOR*

**Program Description:** The minor in Justice & Peace Studies consists of a multidisciplinary series of courses integrating community service learning, social analysis, and ethical knowledge and reflection in the context of a faith that does justice and seeks a more peaceful world. It is a response to the challenge of Fr. Peter-Hans Kolvenbach, S.J., Superior General of the Society of Jesus, to “educate the whole person of solidarity for the real world.” It is premised on Fr. Kolvenbach’s insight that “personal involvement with innocent suffering, with the injustices others suffer, is the catalyst for solidarity which then gives rise to intellectual inquiry and moral reflection.”

**Contact:** Director, Justice and Peace Studies Program

**(All of the following:)**

JPS 365	Faith and Moral Development	3 credits
JPS 565	Catholic Social Teaching	3 credits
JPS 588	Christian Ethics of War and Peace	3 credits
JPS 499	Senior Seminar	3 credits

*Service Learning*

**(One of the following:)**

JPS 331	Jesus Christ: Liberator	3 credits
JPS 335	Jesus Christ: Yesterday and Today	3 credits
JPS 341	Ecclesiology in Context: The Church in El Salvador	3 credits
JPS 360	Social Justice in Theory and Practice	3 credits
JPS 361	Social Justice and Service: Applications in the D.R.	3 credits

*Social Science*

**(One of the following:)**

PLS 319	Politics Developing World	3 credits
PLS 339	Public Policy and Poverty in the US	3 credits
PLS 435	Global Poverty and Development	3 credits
PLS 481	Poverty, Development, and Public Policy	3 credits
SOC 223	Social Problems	3 credits
SOC 341	American Cultural Minorities	3 credits
SOC 350	Social Change	3 credits
SOC 411	Social Inequality and Stratification	3 credits

*LATIN MINOR*

**Program Description:** Students will study intermediate and advanced ancient Latin, along with elective courses from another ancient language or Classical and Near Eastern Studies offerings in translation.

**Contact:** Chair, Department of Classical and Near Eastern Studies

**(Twelve credits from the following:)**

LAT 201	Intermediate Latin	3 credits
LAT 301	Readings in Latin	3 credits
LAT 303	Latin Prose Composition	3 credits
LAT 400	Archaic Latin Authors	3 credits
LAT 401	Archaic Latin Themes and Genres	3 credits
LAT 402	Classical Latin Authors	3 credits
LAT 403	Classical Latin Themes and Genres	3 credits
LAT 404	Augustan Latin Authors	3 credits
LAT 405	Augustan Latin Themes and Genres	3 credits
LAT 406	Post-Augustan/late Latin Authors	3 credits
LAT 407	Post-Augustan/late Latin Themes and Genres	3 credits
LAT 408	Medieval Latin Authors	3 credits
LAT 409	Medieval Latin Themes and Genres	3 credits
LAT 410	Diachronic Readings in Latin	3 credits
LAT 411	Readings in Greek and Latin	3 credits
LAT 493	Directed Independent Readings*	2-4 credits

Six additional credits chosen from the list above or in CNE courses numbered 300 or above, or in any ARA, HEB or GRK courses. 6 credits

\* No more than six hours in LAT 493 will be accepted toward the minor.

## LEGAL STUDIES MINOR

**Program Description:** The Legal Studies minor explores the role of the law in society. This includes a close look at legal history and philosophy as well as legal institutions at all levels of government. This minor focuses on one of the most important institutions of Western Civilization, and on particular contributions of American institutions, and, as such, its study makes an important contribution to the study of the liberal arts. Moreover, this minor is intended to help students reflect on and prepare for making career choices in fields such as law, court administration, law enforcement, and dispute resolution.

**Contact:** Chair, Department of Political Science and International Relations

**(All of the following:)**

PLS 337	Constitutional Law	3 credits
PLS 320	Judicial Process	3 credits
PLS 367	Theory of Law	3 credits
PLS 537	International Law	3 credits

**(Two of the following:)**

BUS 201	Legal Environment of Business	3 credits
HIS 354	Constitutional History before 1877	3 credits
HIS 355	Constitutional History after 1877	3 credits
JMC 529	Law of Mass Communications	3 credits
PHL 440	Legal Philosophy	3 credits
PLS 438	Civil Liberties	3 credits
PLS 439	Dangerous Words	3 credits
PLS 324	Congress and Legislative Process	3 credits
PSY 363	Psychology of Law	3 credits
SOC 321	Criminal Justice System	3 credits
SOC 423	Law and Society	3 credits

## MATHEMATICS MINOR

**Program Description:** Mathematicians study concepts and theories used to solve problems involving quantitative relationships. Opportunities for mathematically-oriented graduates exist in such areas as physics, engineering, space technology, economics, business management, statistics, actuarial sciences, operations research, medical research, environmental sciences, and teaching. The Mathematics minor prepares graduates for positions in industry and teaching or to continue their education in graduate programs.

**Contact:** Chair, Department of Mathematics

**(All of the following:)**

MTH 245	Calculus I	4 credits
MTH 246	Calculus II	4 credits
MTH 529	Linear Algebra	3 credits
MTH 545	Differential Equations	3 credits
Two additional MTH courses numbered 300 or above.		4 credits

## MILITARY SCIENCE MINOR

**Program Description:** The Military Science minor is designed for those students who desire to enhance their education by providing unique management and leadership instruction coupled with practical exercise. This program is designed to develop leadership and management skills basic to success as a leader in a civilian career or in the US Army.

**Contact:** Chair, Department of Military Science

**(All of the following:)**

Successful completion of the Creighton University ROTC program.

## MUSIC MINOR

**Program Description:** The Music minor is structured to develop the student's understanding of foundational knowledge arising within the field of musical arts. The minor provides the student with a grasp of fundamental knowledge within the context of music theory, music history, ear training and sight-singing, and performance on voice or selected instrument.

**Contact:** Coordinator of Music, Department of Fine and Performing Arts

**(All of the following):\***

MUS 221 Ear Training and Sight Singing I 1 credit

**(Two of the following):\***

MUS 204 Comprehensive Musicianship: Baroque 3 credits

MUS 206 Comprehensive Musicianship: Classical 3 credits

MUS 305 Comprehensive Musicianship: 19th and 20th Centuries 3 credits

MUS 306 Comp. Musicianship: Antiquity, Middle Ages & Renaissance 3 credits

**(One of the following):**

MUS 135 Beginning Class Piano 3 credits

MUS 235 Applied Music I 3 credits

**(One of the following):**

MUS 271 Voice Class 3 credits

MUS 235 Applied Music I 3 credits

*Performance Ensembles*

**(Two of the following):**

MUS 208 Jazz Ensemble I 1 credit

MUS 209 Gospel Choir I 1 credit

MUS 212 University Chorus I 1 credit

MUS 218 Wind Ensemble I 1 credit

MUS 219 Javanese Gamelan I 1 credit

MUS 220 University Orchestra I 1 credit

MUS 308 Jazz Ensemble II 1 credit

MUS 309 Gospel Choir II 1 credit

MUS 312 University Chorus II 1 credit

MUS 313 Chamber Choir 1 credit

MUS 318 Wind Ensemble II 1 credit

MUS 319 Javanese Gamelan II 1 credit

MUS 320 University Orchestra II 1 credit

**(Three credits from Performance Ensembles or from the following):**

MUS 235 Applied Music I 1 credit

MUS 335 Applied Music II 2 credits

MUS 375 Music of the World's Peoples 3 credits

\*Students must complete a successful audition before the music faculty by the conclusion of the first semester they are enrolled in Comprehensive Musicianship (during the final week of class.) The audition must be completed prior to enrollment in the second semester of Comprehensive Musicianship and the first semester of Ear Training and Sight-Singing.

## *NATIVE AMERICAN STUDIES MINOR*

**Program Description:** The Native American Studies minor introduces students to Native North American history, culture, identity, and a wide variety of contemporary social and political issues. Students engage in a multidisciplinary program that opens them to understanding the long history of Native peoples and the complex sets of interactions with immigrant peoples around them.

**Contact:** Director, Native American Studies Program

**(All of the following:)**

NAS 101	Introduction to Native American Studies	3 credits
NAS 108	The Native American World	3 credits
NAS 365	Issues of Native American Experience	3 credits
Nine additional credits from any NAS courses numbered 200 and above.		9 credits

## *PHYSICS MINOR*

**Program Description:** The Physics minor offers students the opportunity to obtain a thorough introduction to the theoretical and experimental methods extensively used by physical scientists and engineers. In addition to exploring the historical and philosophical development of physics from the Greeks to the modern era, the Physics minor emphasizes the development of practical quantitative problem-solving skills which are valuable for all students regardless of major.

**Contact:** Chair, Department of Physics

**(All of the following:)**

PHY 211	General Physics I	4 credits
PHY 212	General Physics II	4 credits
PHY 301	Modern Physics	3 credits
PHY 302	Modern Physics Laboratory	1 credit

**(Six credits from the following:)**

PHY 331	Physical Optics	3 credits
PHY 332	Optics Laboratory	1 credit
PHY 471	Classical Mechanics	3 credits
PHY 481	Electricity and Magnetism	3 credits
PHY 491	Seminar	1 credit
PHY 493	Directed Independent Readings*	1-3 credit(s)
PHY 495	Directed Independent Study*	1-3 credit(s)
PHY 497	Directed Independent Research*	1-3 credit(s)
PHY 531	Quantum Mechanics	3 credits
PHY 541	Thermodynamics and Statistical Mechanics	3 credits
PHY 562	Nuclear Instruments and Methods	2 credits
PHY 595	Special Topics	3 credits

\*Only a total of two credits from PHY 493, 495 and 497 may be applied toward this minor.

## *POLITICAL SCIENCE MINOR*

**Program Description:** The Political Science minor is designed for students seeking to supplement their primary major with coursework on politics. The minor provides students with an introduction to Political Science methodology, and it provides an overview of community decision-making at the local, national, and international levels. This will be useful to students as they pursue careers in business, journalism, medicine, the law, and other fields.

**Contact:** Chair, Department of Political Science and International Relations

**(All of the following:)**

PLS 121	American Government and Politics	3 credits
PLS 215	Comparative Politics	3 credits
PLS 310	Political Science Research Methods	4 credits
Three additional courses in Political Science numbered 300 and above.		9 credits

## *PROBLEMS OF PHILOSOPHY MINOR*

**Program Description:** The study of a philosophical field or of a thematically-linked set of philosophical issues is an essential part of maintaining the discipline of philosophy. Students examine how philosophers of the past and present approach these issues.

**Contact:** Associate Chair, Department of Philosophy

**(All of the following:)**

PHL 320	God and Persons: Philosophical Reflections	3 credits
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**(Two of the following:)**

PHL 321	Epistemology	3 credits
PHL 331	Moral Philosophy	3 credits
PHL 342	Metaphysics	3 credits

**(Two of the following:)**

PHL 309	Meaning in America	3 credits
PHL 317	Philosophy of Sport	3 credits
PHL 321	Epistemology	3 credits
PHL 328	Philosophy of History	3 credits
PHL 331	Moral Philosophy	3 credits
PHL 333	Philosophy of the Human Sciences	3 credits
PHL 334	Philosophy of the Natural Sciences	3 credits
PHL 340	Aesthetics	3 credits
PHL 342	Metaphysics	3 credits
PHL 343	Ethics and the Professions	3 credits
PHL 348	Philosophy of Feminism	3 credits
PHL 354	Environmental Ethics	3 credits
PHL 355	Science, Technology, and Values	3 credits
PHL 356	Philosophy of Peace and War	3 credits
PHL 357	Bioethics	3 credits
PHL 358	Social and Political Philosophy	3 credits
PHL 368	Moral Psychology	3 credits
PHL 424	Philosophy of Mind	3 credits
PHL 430	Rationality and Religious Belief	3 credits
PHL 440	Legal Philosophy	3 credits
PHL 450	Philosophy and Commercial Societies	3 credits
PHL 451	Social Justice: Theory and Practice	3 credits
PHL 453	Ethics and Public Policy	3 credits
PHL 455	Health Care, Society and Values	3 credits
PHL 479	The Philosophy of Love and Sex	3 credits

One additional upper-level (300 and above) PHL course. 3 credits

PHL 492 may not be applied toward this minor.

## *PUBLIC POLICY MINOR*

**Program Description:** The Public Policy minor examines how humans organize society and make collective choices. It focuses particularly on political actors and the institutions that humans use to implement public policy choices. Students with a Public Policy minor examine the policy process, substantive policy areas and the application of policy analysis tools and advocacy strategies in the contemporary political system.

**Contact:** Chair, Department of Political Science and International Relations

### *Policy Process*

**(Six credits from the following:)**

PLS 235	Interest Group Politics	3 credits
PLS 320	Judicial Process	3 credits
PLS 322	American Presidency	3 credits
PLS 324	Congress	3 credits
PLS 325	American States and Regions	3 credits
PLS 326	Governing Metropolitan Areas	3 credits
PLS 328	Mass Media in American Politics	3 credits

### *Policy Skills*

**(Six credits from the following:)**

PLS 323	Campaign Management	3 credits
PLS 331	Managing the Non-Profit Sector	3 credits
PLS 465	Faith and Political Action	3 credits
PLS 433	Public Policy Analysis	3 credits
PLS 483	Public Affairs Internship	3 credits

### *Substantive Policy Areas*

**(Six credits from the following:)**

PLS 329	Gender and Politics	3 credits
PLS 332	Public Policy and Education	3 credits
PLS 333	Environmental Politics	3 credits
PLS 334	Public Policy and Health Care	3 credits
PLS 335	Federal Indian Policy and Law	3 credits
PLS 336	Politics of the American Economy	3 credits
PLS 339	Public Policy and Poverty in the United States	3 credits
PLS 341	Issues and challenges in American Foreign Policy	3 credits
PLS 342	Foreign Policy and Diplomacy of Major Powers	3 credits
PLS 372	Equality, Minorities and Public Policy	3 credits
PLS 435	Global Poverty and Development	3 credits
PLS 436	Politics and Ethics of Science and Technology	3 credits
PLS 463	Game Theory and Social Choice	3 credits
PLS 481	Poverty, Development, and Public Policy	3 credits

## *SOCIOLOGY MINOR*

**Program Description:** The minor in Sociology is structured to introduce students to a range of topics, ranging from social problems and social inequalities to social institutions such as family, religion, education, politics, economics. The diversity and breadth of courses allows students the opportunity to explore areas relevant to individual interests.

**Contact:** Chair, Department of Sociology and Anthropology

**(All of the following:)**

SOC 101	Self and Society	3 credits
Six credits from any 300- and 400-level SOC courses.		6 credits
Nine credits from any SOC courses numbered above 200.		9 credits

SOC 385, SOC 487, SOC 493, SOC 495, and SOC 497 cannot be applied towards this minor.

## SPANISH MINOR

**Program Description:** This program of study is designed to take students beyond a basic/core understanding of the fundamentals of the Spanish language to a deeper understanding and proficiency. The minor provides the student with more depth and understanding of the accepted national standards as put forth by the American Council on the Teaching of Foreign Languages (ACTFL): communication, culture, connections, comparisons/contrasts, and community. This minor will enhance the student's understanding and interaction with other languages and cultures and thus, would be a valuable component to any field of study.

**Contact:** Chair, Department of Modern Languages and Literatures

**(Eighteen credits from the following:)**

SPN 201	Intermediate Spanish I	3 credits
SPN 202	Intermediate Spanish II	3 credits
SPN 301	Spanish for Spanish Speakers	3 credits
SPN 302	Spanish for Spanish Speakers II	3 credits
SPN 311	Advanced Spanish I	3 credits
SPN 312	Advanced Spanish II	3 credits
SPN 313	Advanced Spanish Conversation	3 credits
SPN 314	Communicating in Business	3 credits
SPN 321	Civilization and Culture of Spain	3 credits
SPN 322	Latin-American Culture and Civilization	3 credits
SPN 323	Survey of Latin-American Literature	3 credits
SPN 325	Introduction to Literary Analysis	3 credits
SPN 327	Survey of Peninsular Literature	3 credits
SPN 331	Medical Spanish I	3 credits
SPN 332	Medical Spanish II	3 credits
SPN 335	French Practicum	1 credit
SPN 411	Adv. Spanish Grammar, Translation & Composition I	3 credits
SPN 412	Adv. Spanish Grammar, Translation & Composition II	3 credits
SPN 423	Latin-American Feminine Voices	3 credits
SPN 493	Directed Independent Readings	1-3 credits
SPN 496	Independent Study in the Dominican Republic	3 credits
SPN 541	Medieval Spanish Literature	3 credits
SPN 542	Golden Age Literature	3 credits
SPN 544	Spanish Peninsular Narrative	3 credits
SPN 545	Fifteenth-Century Sentimental Novel	3 credits
SPN 549	Twentieth-Century Spanish Drama	3 credits
SPN 550	Literature of the Colonial Period	3 credits
SPN 551	Latin-American Novel	3 credits
SPN 552	The Latin-American Short Story	3 credits
SPN 553	Contemporary Latino(a) Literature	3 credits
SPN 554	Twentieth-Century Latin-American Poetry	3 credits
SPN 555	Twentieth-Century Latin-American Theater	3 credits
SPN 556	Understanding the Latin-American Boom	3 credits
SPN 557	Contemporary Spanish Poetry	3 credits
SPN 558	Staging the Revolution	3 credits
SPN 561	The Generation of 1898	3 credits
SPN 564	History of the Spanish Language	3 credits
SPN 568	Mult. Spain Through Letters, Politics, Theater and Film	3 credits
SPN 571	Latinos in the Movies	3 credits



## STUDIO ART MINOR

**Program Description:** The minor in Studio Art provides the student with hands-on experience and a basic understanding of the practice of Fine Art. The two-dimensional and three-dimensional worlds are explored through the study of the elements of art: line, shape, value, color, texture, form, space, and design. In addition, social context and purpose are examined. The student creates objects of art based on these principles, self-expression, and theories of aesthetics.

**Contact:** Associate Chair, Visual Arts, Department of Fine and Performing Arts

**(All of the following:)**

ART 105	Art Fundamentals	3 credits
ART 153	Sculpture I	3 credits

**(One of the following:)**

ART 219	History of Art	3 credits
ART 319	Art International	3 credits

**(Nine credits from the following:)**

*Ceramics*

ART 211	Introductory Ceramics	3 credits
ART 311	Intermediate Ceramics I	3 credits
ART 312	Intermediate Ceramics 11	3 credits

*Sculpture*

ART 253	Sculpture II	3 credits
ART 353	Sculpture III	3 credits
ART 453	Sculpture IV	3 credits

*Photography*

ART 271	Photography Studio I	3 credits
ART 371	Photography Studio 11	3 credits
ART 372	Color Photography	3 credits
ART 373	Photographic Design and Non-Silver Process	3 credits

*Painting*

ART 306	Color: Acrylic and Chalk	3 credits
ART 331	Painting I	3 credits
ART 332	Painting II	3 credits
ART 431	Painting III	3 credits

*Printmaking*

ART 345	Relief printing: Wood Cut and Linoleum	3 credits
ART 347	Etching I	3 credits
ART 348	Etching 11	3 credits
ART 447	Etching III	3 credits

*Drawing*

ART 321	Life Drawing I	3 credits
ART 322	Life Drawing II	3 credits
ART 421	Life Drawing III	3 credits

*Glass*

ART 390	Sculptural Glass Casting	3 credits
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## THEATRE MINOR

**Program Description:** The Theatre minor offers broad-based education in the theatrical arts while giving some specificity through electives. Experiences in acting, directing, theatre history, television, stagecraft, and design are included in study options.

**Contact:** Coordinator of Theatre, Department of Fine and Performing Arts

**(All of the following:)**

THR 131	Acting I	3 credits
THR 153	Stagecraft I	3 credits

<b>(One of the following:)</b>		
THR 341	Play Direction and Script Analysis I	3 credits
THR 342	The Art of Television Directing	3 credits
<b>(One of the following:)</b>		
THR 154	Costume Construction	3 credits
THR 215	Make-up Design	3 credits
THR 223	Basic Television Studio Production	3 credits
THR 355	Lighting Design I	3 credits
<b>(One of the following:)</b>		
THR 458	Performance, Directing and Production Lab	3 credits
THR 461	American Theatre History	3 credits
THR 465	Theatre History I: 5 <sup>th</sup> Century BC – 1700	3 credits
THR 466	World Theatre History II: 1700 – Present	3 credits
Three additional credits in theatre chosen in consultation with Coordinator of Theatre.		3 credits

### *WOMEN'S AND GENDER STUDIES MINOR*

**Program Description:** The Women's and Gender Studies minor is an interdisciplinary program that introduces students to the rapidly expanding areas of scholarship focused upon gender, women, and men. The program explores social constructions and experiences of gender roles of masculinity and femininity and diverse sexual orientations. While men are an expanding focus of Gender Studies, this program embraces foundations in Women's Studies and as such highlights the experiences and contributions of women, both historically and in contemporary society. In combination, students discover new, more inclusive ways of thinking and relating in contemporary society.

**Contact:** Director, Women's and Gender Studies Program

<b>(All of the following:)</b>		
WGS 200	Introduction to Gender Studies	3 credits
<b>(Fifteen credits from the following:)</b>		
IDC 491	Women in Science	1 credit
PSY 374	Human Sexuality	3 credits
PSY 375	Marriage and Family Relationships	3 credits
WGS 205	American Family issues	3 credits
WGS 316	Women in Ancient Greece and Hellenistic Egypt	3 credits
WGS 317	Women in Ancient Rome and Roman Egypt	3 credits
WGS 318	Gender in Society	3 credits
WGS 329	Gender and Politics	3 credits
WGS 348	Philosophy of Feminism	3 credits
WGS 360	Gender, Society and Culture	3 credits
WGS 366	The Status of Women: Progress and Process	3 credits
WGS 409	Race and Gender Relations	3 credits
WGS 410	Women in Literature	3 credits
WGS 440	Gender Communication	3 credits
WGS 460	The History of Women in the United States	3 credits
WGS 464	Women, Marriage, and Family in East Asian Society	3 credits
WGS 473	The Psychology of Gender	3 credits
WGS 518	Women and the Bible	3 credits
WGS 551	Women Writers in French and Francophone Literature	3 credits
WGS 568	Women in the Christian Tradition	3 credits

## OTHER ACADEMIC PROGRAMS

### *Arts-Engineering Program*

*Marquette Engineering Program.* This program consists of two years of pre-engineering at Creighton University followed by a transfer to the College of Engineering at Marquette University for two or three more years, depending on whether a work-study cooperative plan is followed. After completing the academic requirements at Marquette University, the student will be awarded a B.S. in an engineering field: biocomputer, biomedical, civil, computer, electrical, industrial, or mechanical engineering. Courses approved by and completed at a level acceptable to the student's advisor will be accepted for transfer credit at Marquette University.

*Detroit Mercy Cooperative Engineering Program.* The program consists of two years of pre-engineering at Creighton University followed by two years of cooperative engineering at the University of Detroit Mercy. After completing the academic requirements at the University of Detroit Mercy, the student will be awarded a Bachelor of Civil, Electrical, Manufacturing, or Mechanical Engineering. Students who successfully complete the following program (see grid), or an alternate approved program, will be unconditionally recommended for transfer to the Junior Class of the College of Engineering and Science at the University of Detroit Mercy; they will be certified as being qualified for cooperative industrial training in the Electrical and Computer, Mechanical, or Civil and Environmental departments.

### FIRST YEAR — CREIGHTON

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
PHY 211 General Physics I	4	PHY 212 General Physics II	4
MTH 245 Calculus I	4	MTH 246 Calculus II	4
ENG 150 Rhetoric and Composition	3	ENG 120 World Literature I	3
HIS 101 The Modern Western World	3	PHL 107 Crit. and Hist. Intro. to Phil.	3
THL 100 Christianity in Context	3	<b>(One of the following:)</b>	
RSP 101 Ratio Studiorum Program	1	COM 152 Principles of Comm. Comp.	3
	18	ENG 251 Advanced Composition	3
			17

### SECOND YEAR — CREIGHTON

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
PHY 301* Modern Physics	3	Social Science	3
CHM 203/204 General Chemistry I	4	CHM 205/206 General Chemistry II	4
MTH 347 Calculus III	4	PHL 250 Ethics	3
Scripture (200-Level THL)	3	CSC 221 Intro to Programming	3
MTH 545 Differential Equations	3	PHL 591 Seminar in Engineering	1
<b>(One of the following:)</b>		<b>(One of the following:)</b>	
PHY 302* Modern Physics Lab	1	PHY 522 Electric Circuits	3
PHY 303 Electronic Lab	1	MTH 529 Linear Algebra	3
	18		17

\* PHY 301 and PHY 302 are required of Electrical Engineering majors at University of Detroit Mercy

### *Coordination with Engineering Programs of Other Institutions*

The first-year program outlined above is the standard first-year program for most engineering schools with slight variations. A study of the first-year program at the engineering college of your choice will reveal those variations which can be accommodated in the students schedule. Students wishing to spend a second year at Creighton before making application to an engineering school are advised to contact that school directly for explicit approval of a second-year schedule.

### ***Certificate in Business for Arts and Sciences Students***

In cooperation with Creighton's College of Business Administration, students in the College of Arts and Sciences can earn a Certificate in Business Administration. Students wishing to complete this program must file an application with the Undergraduate Coordinator of the College of Business Administration no later than the beginning of their Junior year.

At least 19 of the 31 credits of courses required to complete this program must be taken in residence at Creighton.\* In addition, students must achieve a cumulative GPA of 2.00. Arts and Sciences students are limited to no more than 31 credits of College of Business Administration courses.

<i>Required Courses</i>		<i>Credits</i>
ACC 201	Introduction to Financial Accounting	3
ACC 202	Introduction to Managerial Accounting	3
MIS 253	Management Information Systems	3
BUS 201	Legal Environment of Business	3
BUS 229	Statistical Analysis	4
ECO 203	Introductory Microeconomics	3
ECO 205	Introductory Macroeconomics	3
FIN 301	Managerial Finance	3
MGT 301	Managerial Process and Organizational Behavior	3
MKT 319	Principles of Marketing	3

\* Upon matriculation, a maximum of six credits may be taken as transient study.



## ***PRE-PROFESSIONAL STUDY***

Courses required as preparation for specialized professional study are organized into programs one, two, three or four years in length. Ordinarily they can be completed within the standard program leading to a Bachelor's degree.

In addition to the pre-professional programs outlined in this bulletin, a student in the College of Arts and Sciences may satisfy some of the pre-professional course requirements for professional education in architecture, dietetics, library science, mortuary science, optometry, osteopathy, veterinary medicine, etc. Students should consult the catalogs of the professional schools in which they are interested to identify the entrance requirements.

### ***Pre-Law Study***

Schools of Law consider all applicants who hold a bachelor's degree or its equivalent from an approved college or university. Additional standards and conditions for admission may be imposed in some states. Although the completion of a bachelor's degree is recommended in most cases, Creighton's School of Law will in exceptional cases consider applicants for admission who have completed three-fourths of the credits required for an undergraduate degree.

No single major or set of courses is required or recommended to those who wish to prepare for legal study. However, students should select courses which contribute to their skill in comprehension and expression in language, a thorough understanding of human institutions and values, and a capacity for clear, logical and creative thought.

Individualized advice on courses and programs is available from members of the Pre-Law Advising Committee, College of Arts and Sciences, or Pre-Law Advisor, College of Business Administration.

### ***Pre-Health Sciences Programs***

Science in service to humanity in medicine, dentistry, and other health professions is a tradition at Creighton. The scientific and social challenges of today and tomorrow demand not only excellent professional training but also intellectual versatility, firmness of values, and commitment to lifelong learning, which lie at the heart of Creighton's undergraduate liberal education. For reasons such as these, medical and dental schools prefer applicants who have completed an undergraduate degree with a broad general education before entering professional school.

### ***Advising of Pre-Health Sciences Students***

Pre-health students at Creighton can benefit from a rich array of advising resources. The College of Arts and Sciences maintains an Advising Resources Center (ARC) in which students may consult materials both in print and on CD-ROM. The College also sponsors regular group presentations on the curricular and procedural aspects of preparing to pursue a career in the health professions. Individual counseling is provided by members of a committee of Arts and Sciences faculty familiar with the most recent developments in the pre-health field. For Freshman and Sophomores, these advisors focus on selecting courses and majors; for Juniors and Seniors, on the process of selecting and applying to professional school. Designated members of the staff and faculty in each of Creighton's own professional schools serve as a third source of valuable advice and offer interested students the opportunity to "shadow" professionals in their field of greatest interest.

To access all of these resources, students interested in careers in the health sciences should contact the Advising Resources Center (ARC) in the Hixson-Lied Science Building, Room G06, at the earliest opportunity.

## ***Pre-Dental Program***

### ***General Requirements***

In general, schools of dentistry require applicants to have completed course work in the basic sciences, but not in areas that duplicate dental school courses, and they seriously encourage study in the social sciences, the humanities, and mathematics. At Creighton, pre-dental students carry out these studies in a variety of programs leading to the baccalaureate degree. Although most students major in biology, chemistry, or psychology, others have majored in such fields as physics, mathematics, English, philosophy, and theology. Each student's program is designed so that by the end of the Junior year he or she will have completed the basic requirements for application to professional school. The minimum requirements are as follows:

At least 90 semester hours (three years) of college work in an accredited institution, excluding physical education, and one-hour "drill-type" ROTC courses, but including 6 hours of English and one-year courses with laboratory in general biology, general chemistry, organic chemistry, and general physics.

Ordinarily at the end of the Junior year or the beginning of the Senior year, students take the national admission examination, the DAT (Dental Admission Test). During the Senior year, professional school admission committees review the students' applications. Decisions are usually announced at the end of the fall semester or early in the spring semester of the Senior year.

### ***Pre-Medical Program General Requirements***

The Creighton University School of Medicine requires applicants to have completed specific courses in the basic sciences, and encourages students to consider advanced coursework particularly in biochemistry, but as well in cell biology, genetics, anatomy, or physiology. The School also encourages broad study of the social sciences, humanities, and mathematics, in addition to substantial experience in service to others. Extracurricular shadowing or work experiences related to the delivery of health care and scientific research are also highly valued by the Committee on Medical Admissions.

At Creighton, pre-medical students typically earn the baccalaureate degree with majors in the scientific fields of biology and chemistry, but a great many also major in other areas such as English, philosophy, psychology, and theology. Each pre-medical student's program should be designed so that by the end of the Junior year these specific course requirements (listed with the number of credits each offers) for medical study will have been completed:

Biology, General with lab, 2/3 courses (211 and 212)	8
Chemistry, General I with laboratory (203/204)	4
Chemistry, General II with laboratory (205/206)	4
Chemistry, Organic I with laboratory (321/322)	4
Chemistry, Organic II with laboratory (323/324)	4
English, two courses, one of which must be English 150 or ENG 251	6
Physics, General with laboratory, two courses (211 and 212)	8

The Creighton pre-medical student should present a record of at least 90 semester hours of study, exclusive of credit in military science, physical education, or similar courses.

Ordinarily in the spring of the Junior year (April) or at the beginning of the Senior year (August), pre-medical students take the MCAT (Medical College Admissions Test). Applications should be submitted through AMCAS (American Medical College Application Service) as early as possible during the summer between the Junior and Senior years. During the Senior year, the Committee on Medical Admissions reviews applications and invites the most promising applicants for interviews. Admission to medical school at Creighton is on a 'rolling' basis, thus early application is strongly advised. The Creighton University School of Medicine website is <http://medicine.creighton.edu>.

### ***Pre-Pharmacy Program***

Pre-pharmacy preparation consists of at least 63 semester hours. At Creighton University, these pre-professional hours must include the following specified courses and credits:

General Biology I and II with labs (BIO 211, BIO 212)	8
General Chemistry I and II with labs (CHM 203, 204, 205, 206)	8
Organic Chemistry I and II with labs (CHM 321, 322, 323, 324)	8
Calculus (MTH 141 or MTH 245)	3
English (including Composition, e.g., ENG 150 or ENG 251)	6
Speech (COM 151 or 152)	3
Psychology (PSY 111 or higher level course)	3
Economics (ECO 203 or ECO 205)	3
Theology	6
Electives*	15

\* At least nine of the elective hours must be taken in areas other than natural sciences and mathematics.

The courses listed should be taken by pre-pharmacy students in place of the Arts and Sciences core curriculum requirements. General Chemistry courses should be taken in the first pre-professional year. It is suggested that students take a maximum of 16 hours during the first semester of their pre-professional program. Creighton undergraduate students who complete the majority of their undergraduate coursework at Creighton **are not required to take the PCAT.**

Creighton undergraduate students meeting the following criteria will be granted admission to the Doctor of Pharmacy program.

#### **Each student must:**

1. Be enrolled and complete all pre-pharmacy requirements at Creighton University prior to entry into the program. Courses taken for college credit (e.g., Advanced Placement) prior to high school graduation will not result in ineligibility.
2. Complete a minimum of 15 semester hours each semester.
3. Have achieved a minimum overall grade point average (GPA) of 3.5 at the end of the semester in which the student applies.
4. Take biology and organic chemistry concurrently during the same semester.
5. Submit a completed application to the School of Pharmacy and Health Professions Admission Office by **November 15** of the academic year prior to enrollment in the professional program.

**Students unable to meet one or more of the above criteria are encouraged to apply for admission through the normal admission procedure.**

Applications for regular admission are accepted any time after August 1. Files are reviewed from December through April.

### ***Pre-Occupational Therapy Program***

Occupational Therapy is the art and science of facilitating well-being through occupation. The term "occupation" represents the flow of activities that fill a person's life and that have an effect on his or her health. The profession is particularly concerned with how people construct meaningful lives individually and in community. Occupational Therapy views people as multidimensional beings, blending knowledge from the biological and social sciences into a unique, distinct and holistic profession.

Creighton University offers a unique opportunity for doctoral level study in Occupational Therapy. Creighton's program is the first entry-level (no baccalaureate degree required) occupational therapy professional doctorate in the country. Since the Fall of 1999 the Doctor of Occupational Therapy (OTD) has been the sole professional occupational therapy degree offered to students matriculating into the School of Pharmacy and Health Professions.

Admission to the Creighton University School of Pharmacy and Health Professions Doctor of Occupational Therapy Program requires a two-year pre-occupational therapy program of study of at least 60 semester hours. Completion of the professional component of the degree requires an additional nine semesters (including two summers). Graduates from the OTD program are prepared to assume leadership roles in professional service, administration, teaching, collaborative research, and ethics and health policy development, and to engage in work that is morally responsive to the needs of clients and communities they are entrusted to serve.

### ***Prerequisites***

The sequence of courses listed below should be taken by pre-occupational therapy students. This sequence is reflective of a liberal education essential for occupational therapy professional practice, and is in close accordance with the philosophy that guides Arts and Sciences Core Curriculum requirements at Creighton University. A liberal education foundation encourages students to become free and responsible people by delimiting the natural and human boundaries within which free choice and responsibility occur. Therefore the pre-occupational therapy course sequence introduces students to the various traditional liberal arts and empirical sciences which are later extended in the OTD program. Together, the prerequisite sequence and the OTD curriculum contribute to a broad understanding of human culture and prepare students to respond to the needs of society through professional practice.

The pre-occupational therapy preparation at Creighton University must include courses and credits selected from the specified categories listed below. Some courses may be listed in more than one category, but a single course may not be used to fulfill prerequisite requirements in more than one category. Questions regarding prerequisites may be directed to the School of Pharmacy and Health Professions Admission Office. Although the titles of the first four categories in the list below parallel those of Core categories in the College of Arts and Sciences, students should note that the courses that fulfill those categories are not identical in the two curricula. A course may satisfy a pre-occupational therapy category but not meet the Arts and Sciences core requirement in the parallel category. If a student is not certain that he or she will enter the occupational therapy program, it is advisable to select pre-occupational therapy courses that also meet Arts and Sciences core requirements.

The School of Pharmacy and Health Professions will make the final determination regarding courses satisfying pre-occupational therapy requirements. The number of semester credit hours applies to those students who have not earned a bachelor degree. **Students who have earned a bachelor degree are required to have taken a minimum of one course per category.**

#### **Theology, Philosophy and Ethics (6 semester hours)\***

Courses in this category assist in developing an ethical and moral understanding of the responsibility toward building a human community of justice, respect, and mutual concern.

**Examples:** Religion, theology, ethics, philosophy, logic.

\*Creighton University pre-occupational therapy students are required to take six hours of THL.

#### **Cultures, Ideas and Civilizations (6 semester hours)**

Courses in this category contribute to understanding how cultures and civilizations have been shaped by ideas over history and for gaining insight into the variety of cultural, social, intellectual and religious backgrounds of the global society.

**Examples:** History, world religions, American studies, world literature, women's studies.

#### **Natural Sciences (15 semester hours)**

Courses in this category provide a broad foundation in the scientific investigation of the physical and biological dimensions of the world and human life. **At least one course must be taken from biological sciences. At least one course must include a lab.**

**Examples:** Biology, anatomy, physiology, chemistry, physics, health, nutrition.



**Social and Behavioral Sciences (12 semester hours)**

Courses in this category provide a broad foundation leading to an understanding of human patterns of interaction between self, others, and society. **At least one course must be taken from psychology.**

**Examples:** Anthropology, sociology, social work, political science, psychology.

**Creative Expression (9 semester hours)**

Courses in this category contribute to the development of creativity, expressive skills and competent exchange of ideas. **One hands-on fine and performing arts course and one composition course must be taken.**

**Examples:** English composition, dance, music, art, speech, drama, journalism, web design.

**Critical Discovery/Electives (12 semester hours)**

Courses in this category reflect a student's learning interests or contribute to the breadth and depth of knowledge through electives or upper division courses. **A course in statistics or research must be taken.**

**Examples:** Math, economics, foreign language.

Creighton undergraduate students meeting the following criteria will be guaranteed admission to the Doctor of Occupational Therapy program.

**Each student must:**

1. Be enrolled and complete the pre-occupational therapy requirements at Creighton University prior to entry into the program.
2. Submit completed application materials to the Admission Office by **January 15** of the academic year prior to enrollment in the professional program.
3. Remain in good academic and academic-related standing throughout all prerequisite coursework.
4. Have achieved a minimum overall grade point average (GPA) of 3.25 at the end of the semester in which the student applies.

**Students unable to meet one or more of the above criteria are encouraged to apply for admission through the normal admission procedure.**

***Pre-Physical Therapy Program***

Pre-physical therapy preparation consists of at least 90 semester hours. At Creighton University, these pre-professional hours must include the following specified courses and credits:

General Biology I and II with labs (BIO 211, BIO 212)	8
General Chemistry I and II with labs (CHM 203, 204, 205, 206)	8
General Physics I and II with labs (PHY 211, PHY 212)	
Human or Mammalian Physiology	8
(BIO 449, BMS 303, BMS 404, or EXS 320)	3
English (including Composition, e.g., ENG 150 or ENG 251)	6
Theology	6
Electives	51

Students applying to the program **who do not hold a bachelor degree must identify their major emphasis of study and satisfactorily complete 3 upper-level courses** (300-level and above) that total 9 semester hours, toward that major prior to matriculation.

Graduate Record Examination (GRE) scores must be submitted at the time of application to the Physical Therapy program. Sixteen of the 27 required science semester hours must be completed by the application deadline. It is recommended that students select elective courses from psychology, mathematics, anatomy, histology, physiology, exercise physiology, organic chemistry, biochemistry, statistics, and medical terminology. Students with alternative backgrounds, such as sociology, humanities, business, or biomedical engineering, are also encouraged to apply, as strong academic performance, rather than the area of academic emphasis, is the paramount consideration for admission.

Students should pursue a course of study leading to an Arts and Sciences degree. It is suggested that students take a maximum of 16 hours during the first semester of their pre-professional program.

Applicants must demonstrate an understanding of the profession gained through work, personal experiences, or other methods. The Admission Committee will specifically look for evidence of such understanding, along with academic ability, performance on standardized tests, and professionalism as demonstrated through required personal interviews.

Creighton undergraduate students meeting the following criteria will be granted admission to the Doctor of Physical Therapy program.

**Each student must:**

1. Be enrolled and complete all pre-physical therapy requirements at Creighton University prior to entry into the program. Classes taken that received college credit prior to high school graduation do not make students ineligible.
2. Complete a minimum of 15 semester hours each semester (one semester of no less than 12 semester hours is allowed).
3. Complete biology, chemistry, and at least one semester of physics by the end of the semester in which application to the program is made.
4. Have achieved a minimum overall grade point average (GPA) of 3.25 at the end of the semester in which the student applies. A maximum of two repeat courses are allowed in the calculation of the GPA.
5. Have completed an interview expressing appropriate rationale and demonstrating interpersonal skills for the study and practice of physical therapy similar to that expected of other candidates.
6. Submit GRE scores.
7. Submit a completed application to the School of Pharmacy and Health Professions Admission Office by **November 15** or the academic year prior to enrollment in the professional program.

Students unable to meet one or more of the above criteria are encouraged to apply for admission through the normal admission procedure.

***For more information***

- \* Visit our website: <http://spahp.creighton.edu>
- \* Contact our Admissions Office: (800) 325-2830, ext. 1, or (402) 280-2662.
- \* Email us: [phaadmis@creighton.edu](mailto:phaadmis@creighton.edu)
- \* Write us: Office of Admissions, Creighton University School of Pharmacy and Health Professions, 2500 California Plaza, Omaha, NE, 68178.

# PROGRAMS OF STUDY-II

## COLLEGE OF BUSINESS ADMINISTRATION

The undergraduate program of the College of Business Administration is fully accredited by the Association to Advance Collegiate Schools of Business (AACSB International). This association is recognized by the National Commission on Accrediting as the highest official accrediting agency in collegiate education for business at the undergraduate and master's levels. Membership in the Association is open only to schools and colleges whose intellectual climate ensures the offering of programs of high academic quality and whose teaching and administrative staff possess the qualifications, experience, professional interests, and scholarly productivity essential for the successful conduct of a broad and liberal, rather than unduly specialized, baccalaureate curriculum in business administration.

### *CURRICULUM GOALS*

The Creighton University College of Business Administration is a Catholic and Jesuit business school committed to excellence in its educational programs. As Catholic, we are dedicated to the pursuit of truth in all its forms and are guided by the living tradition of the Catholic Church. As Jesuit, we participate in the tradition of the Society of Jesus, which provides an integrating vision of the world that arises out of a knowledge and love of Jesus Christ. As a business school, we educate our students for business leadership in a dynamic, transformational and value centered learning environment. Members of the Creighton community are challenged to reflect on transcendent values, including their relationship with God, in an atmosphere of freedom of inquiry, belief and religious worship. Service to others, the importance of family life, the inalienable worth of each individual, and appreciation of ethnic and cultural diversity are core values of Creighton. From this tradition, we prepare students who:

**Apply knowledge, skills, and technologies** essential for business as a whole and in their chosen concentration.

**Integrate a broad and diverse liberal arts education** with their business education.

**Communicate effectively**, clearly, and persuasively through appropriate mediums.

**Think critically and creatively** about information, assumptions, and arguments in order to develop innovative solutions to business and societal problems.

**Apply sound and coherent ethical principles** to decision making in their personal and professional lives.

**Appreciate the responsibility of business to be an agent of change** in society for the common good.

### *REQUIREMENTS FOR GRADUATION*

The University will confer the degree of Bachelor of Science in Business Administration (B.S.B.A.) on regular students who successfully complete all prescribed courses and fulfill the graduation requirements.

A candidate for a degree must have earned 128 semester hours of credit with a grade point average (GPA) of 2.00 or above for all courses attempted at this University, and a 2.00 average or above for all required courses in the field of concentration.

Normally, students must register for not less than 12 hours nor more than 18 hours in each semester. The privilege of carrying more than 18 hours is contingent upon the student's grade point average and requires special approval of the Dean.

Approval of the faculty advisor and the Dean is required for semester study programs, including electives to be counted toward graduation. College policy states that 48 hours must be completed at Creighton with a minimum of 32 hours of business coursework completed at Creighton. All Business Administration students must complete the course in Strategic Management (BUS 471) with a grade of "C" or better.

## ***PROGRAMS OF STUDY***

The four-year undergraduate program in business administration comprises two natural divisions, the first including the freshman and sophomore years, and the second the junior and senior years. The work of the first, or lower division, consists largely of required courses and has a two-fold purpose: to provide a broad cultural background, and to furnish necessary training in the fundamental principles of business and economics.

During the student's junior and senior years, provision is made for a group of required and elective courses intended to provide a familiarity with the basic areas of business administration. In addition, the following major fields of study are offered: Accounting, Economics, Finance, Management, Management Information Systems, Marketing, and International Business. In each field instructional emphasis is not directed toward the development of routine skills or to particular industries. Instead, every effort is made to stimulate students to think logically, to process and evaluate information, and to make sound decisions from the overall management point of view.

It is recommended that students select a field of concentration by the end of the second semester of their sophomore year or by the beginning of the first semester of their junior year. A major must be officially declared prior to the student's final semester. Some majors require departmental approval and have acceptance requirements that differ from general graduation requirements.

Students may earn multiple majors by satisfying the requirements for each as shown in the Bulletin. If a specific course satisfies the requirements of more than one major, that course may be counted toward fulfillment of each set of major requirements.

In addition to the basic fields of study, the College of Business Administration, in conjunction with the School of Law, offers a combined Business Administration-Law program—requiring a total of six years—which leads to both the B.S.B.A. with the Prelaw Business Major and the Juris Doctor degrees (see page 239).

### ***Majors and Minors for Business Administration Students***

Students in the College of Business Administration may complete an additional field of concentration or minor in the Creighton College of Arts and Sciences. Departments in the College of Arts and Sciences may, at their discretion, allow a student to complete a major. The second major is in addition to the B.S.B.A degree; students do not receive a B.A. or B.S. degree from the College of Arts and Sciences. Requirements of the field of concentration, major or minor are listed in each department's entry in the catalog. To apply for an additional field of concentration, major, or minor the student should contact the Dean's Office for appropriate advising and referral.

## ***GENERAL CURRICULUM***

The General Curriculum requirements, as stated in Categories I-VII below, apply to all College of Business Administration students and to all fields of concentration. A required course which is failed should be retaken the following semester. Unless indicated otherwise, each course is a three-hour course.

<b>Categories</b>	<b>Sem. Hours</b>
I. Foundation Knowledge and Skills	19 or 20 credits
II. Theology, Philosophy, and Ethics	15 credits
III. Domestic and International Environment of Business	18 credits
IV. General Education Electives	17-19 credits
V. General Business Requirements	24 credits
VI. Field of Concentration	18 or 21 credits
VII. Other Requirements and Electives	<u>11-17 credits</u>
Total	128 credits

## **I. Foundation Knowledge and Skills (19 or 20 hours)**

### **A. Communications:**

COM 152	Principles of Communication Competence	3 credits
COM 314*	Managerial Communication	3 credits
ENG 150	Rhetoric and Composition	3 credits

\*Pre-Law/Business Students only may choose between COM 314 and ENG 251.

### **B. Mathematical Sciences:**

BUS 229	Statistical Analysis	4 credits
MTH 201	Applied Mathematics	3 credits
<b>(One of the following:)</b>		
MTH 141	Applied Calculus	3 credits
MTH 245	Calculus I	4 credits

## **II. Theology, Philosophy, and Ethics (15 hours)**

### **A. Theology:**

THL 100	Religious Inquiry: Christianity in Context	3 credits
Theology (200 level scripture course, except 250)		3 credits

### **B. Philosophy:**

BUS 356	Business Ethics	3 credits
PHL 107	Critical and Historical Introduction to Philosophy	3 credits
PHL 250	Philosophical Foundations for Ethical Understanding	3 credits

## **III. Domestic and International Environment of Business (18 hours)**

### **A. Domestic Environment**

BUS 201	Legal Environment of Business	3 credits
ECO 205	Introductory Macroeconomics	3 credits

### **B. Strategic Management**

BUS 471	Strategic Management	3 credits
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### **C. International Environment**

#### *International Business*

#### **(One of the following:)**

ACC 538	International Accounting	3 credits
ECO 518	Comparative Economic Systems	3 credits
ECO 528	International Economic Development	3 credits
ECO 538	International Economics	3 credits
FIN 558	International Financial Management	3 credits
MGT 373	International Management	3 credits
MKT 363	Global Marketing	3 credits

#### *International Culture—*

#### **(One of the following:)**

- (1) any two modern language courses; one of these courses must be at the intermediate level
- (2) one international studies course and one course in a language native to that region; one of these courses must be at the intermediate level
- (3) two international studies courses selected from one of the following study groups; one of these courses must be at the intermediate level

#### *International Culture Requirement for Non-English Speakers*

Students who are fluent in language other than English are deemed to have met the international culture requirements under IIIB. Students must provide documentation to support a request for an exemption. Hours freed up must be used to take non-business courses. International Business majors must choose two international culture courses from one study group listed below, or two AMS courses with the approval of the International Business advisor.

***African Studies (Native Language: French)***

AFS 106	The African World	3 credits
AFS 311	Politics of Africa	3 credits
AFS 342	Peoples and Cultures of Sub-Saharan Africa	3 credits
AFS 347	Peoples and Cultures of Africa and the Middle East	3 credits
AFS 356	Christianity in Africa	3 credits
AFS 388	Origins of Modern Africa	3 credits
AFS 390	Introduction to African Literature	3 credits
AFS 398	Literature of Francophone Africa	3 credits
AFS 400	Seminar in African Studies	3 credits
AFS 484	Nationalist Movements in Colonial Africa	3 credits
AFS 485	Society and Belief Systems in Africa	3 credits
AFS 487	History of West Africa	3 credits
AFS 489	Southern Africa: The Politics of Race	3 credits
PLS 319	Politics of the Developing Areas	3 credits
PLS 435	Global Poverty and Development	3 credits

***Asian Studies (Native Language: Japanese)***

ANT 348	Peoples and Cultures of Asia	3 credits
HIS 103	The Asian World	3 credits
HIS 464	Women, Marriage, and Family in East Asian Society	3 credits
HIS 466	Popular Culture in Traditional China and Japan	3 credits
HIS 467	Modern China	3 credits
HIS 468	Modern Japan	3 credits
HIS 593	History of India: The Land of Bharata	3 credits
PHL 353	Introduction to Buddhism	3 credits
PLS 315	Politics of Asia	3 credits
PLS 319	Politics of the Developing Areas	3 credits
PLS 342	Foreign Policy and Diplomacy of Major Powers	3 credits
PLS 435	Global Poverty and Development	3 credits
THL 359	Living Religions of the World	3 credits

***European Studies (Native Language: French, Spanish, Italian, German)***

ENG 330	Introduction to Irish Literature -Must be taken in Ireland	3 credits
ENG 430	Studies in Irish Literature -Must be taken in Ireland	3 credits
ENG 436	Studies in Irish Lit. History & Culture -Must be taken in Ireland	3 credits
HIS 317	Inside Hitler's Germany - A Study of Nazi Tyranny	3 credits
HIS 319	Eastern Europe 1918-1989	3 credits
HIS 320	World War II in Europe: Triumph over Tyranny	3 credits
HIS 415	19th Century Europe	3 credits
HIS 417	Europe Since 1919	3 credits
HIS 544	History of Ireland	3 credits
HIS 545	Modern France	3 credits
HIS 546	Modern Germany	3 credits
HIS 547	Contemporary Europe Since 1945	3 credits
PLS 301	Western European Political Systems	3 credits
PLS 305	Eastern European Political Systems	3 credits
PLS 401	The European Union	3 credits
PLS 430	Ethics and Market Reforms	3 credits

***Latin American Studies (Native Language: Spanish)***

ANT 346	Peoples and Cultures of Latin America	3 credits
HIS 104	The Latin American World	3 credits
HIS 351	Comparative American Character	3 credits
HIS 371	Mexico and the Mexican Revolution	3 credits
HIS 375	The United States and Latin America	3 credits
HIS 474	Heroes in Latin American History	3 credits
HIS 577	Cuba Under Castro	3 credits

PLS 317	Latin American Government and Politics	3 credits
PLS 319	Politics of the Developing Areas	3 credits
PLS 435	Global Poverty and Development	3 credits
SOC 400	Topical Seminar in Sociology	3 credits

**Middle East Studies** (*Native Language: None*)

ANT 347	People and Cultures of Africa and the Middle East	3 credits
HIS 107	The Middle Eastern World	3 credits
HIS 347	The Arab-Israeli Conflict: Struggle for the Holy Land	3 credits
HIS 348	Muhammad and the Rise of Islam	3 credits
HIS 478	Jerusalem in History	3 credits
HIS 566	United States and the Middle East Since World War II	3 credits
HIS 567	Change and Revolution in the Modern Middle East	3 credits
PLS 313	Politics of the Middle East	3 credits
PLS 319	Politics of the Developing Areas	3 credits
PLS 435	Global Poverty and Development	3 credits
THL 354	Introduction to Judaism	3 credits
THL 359	Living Religions of the World	3 credits

**Russian Studies** (*Native Language: Russian*)

HIS 548	Russian History: 1905 to the Present	3 credits
PLS 303	Politics of Russia and Successor States	3 credits
PLS 342	Foreign Policy and Diplomacy of Major Powers	3 credits

**IV. General Education Electives (17-19 credits)**

*A. History Requirement*

HIS 101	Modern Western World	3 credits
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*B. World Literature Requirement*

**(One of the following:)**

ENG 120	World Literature I	3 credits
ENG 121	World Literature II	3 credits

*C. Natural Science Requirement*

**(One of the following, 3-4 credits:)**

ATS 231	Severe and Unusual Weather	3 credits
BMS 301	Biochemistry	4 credits
BIO 141	Charles Darwin: Life and Impact	3 credits
BIO 149	Human Biology	3 credits
BIO 211	General Biology: Molecular and Cellular	4 credits
BIO 212	General Biology: Organismal and Population	4 credits
CHM 105	Introductory Chemistry	3 credits
CHM 111	Fundamentals of General Chemistry	3 credits
CHM 203	General Chemistry I	3 credits

*And*

CHM 204	General Chemistry I Laboratory	1 credit
EVS 113	Introduction to Atmospheric Sciences	3 credits

*And*

EVS 114	Introduction to Atmospheric Sciences Lab	1 credits
PHY 107	Introductory Astronomy	3 credits

*And*

PHY 108	Astronomy Laboratory	1 credit
PHY 127	Sound and Music	3 credits

*And*

PHY 188	Physics in the Everyday World	1 credit
PHY 137	Light and Color	3 credits

*And*

PHY 188	Physics in the Everyday World	1 credit
PHY 147	Einstein and Modern Physics	3 credits

*And*

PHY 188	Physics in the Everyday World	1 credit
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PHY 187	Introduction to Physics	3 credits
<i>And</i>		
PHY 188	Physics in the Everyday World	1 credit
PHY 211	General Physics I	4 credits

*D. Psychology Requirement*

PSY 111	Introductory Psychology	3 credits
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*E. Social Science Requirement*

**(One of the following:)**

ANT 111	Human Variation	3 credits
PLS 101	Politics and the Human Condition	3 credits
PLS 105	Introduction to World Politics	3 credits
PLS 121	American Government and Politics	3 credits
PLS 215	Comparative Political Systems	3 credits
SOC 101	Self and Society	3 credits

*F. Humanities Requirement*

(Any 3 credit course from ART, DAN, MUS, or THR)		3 credits
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**V. General Business Requirements (24 credits)**

ACC 201	Introduction to Financial Accounting	3 credits
ACC 202	Introduction to Managerial Accounting	3 credits
ECO 203	Introductory Microeconomics	3 credits
MIS 253	Management Information Systems	3 credits
FIN 301	Managerial Finance	3 credits
MGT 301	Managerial Process and Org. Behavior	3 credits
MKT 319	Principles of Marketing	3 credits
MGT 385	Production and Operations Management	3 credits

**VI. Field of Concentration (18 or 21 credits)**

**VII. Freshman Requirements and Other Electives (11-17 credits)**

A. RSP 103	Ratio Studiorum Program	1 credit
B.	Business Electives (3, 6 or 9 hours, depending on major and other courses selected)	
C.	Non-restricted Electives (7-10 hours, depending on major and other courses selected)	

**NOTE:** The three credit International Business course may count in the field of concentration if approved for the area of concentration. Students using the International Business course in their field of concentration will need three more hours in their VII B., Business Electives.



## ENCUENTRO DOMINICANO

The College of Business Administration participates in the Encuentro Dominicano Program. Generally, one of the College's faculty members participates each semester. Interested students should contact the Associate Dean for Undergraduate Programs. For more about the Encuentro Dominicano Program, please refer to page 130.

## TYPICAL FOUR-YEAR DEGREE PROGRAM IN BUSINESS ADMINISTRATION

Outlined on this is a sample of a program that a typical student will follow during the freshman and sophomore years. The program for the junior and senior years will depend on the field of concentration selected.

The College of Business Administration Dean's Office has available four-year plans of study handouts for all Business Administration fields of concentration. Junior and senior year course planning requires an understanding of degree requirements and attention to the Schedule of Courses and Bulletin.

Academic advising is performed by faculty members and department chairs in the College of Business Administration. Faculty advisors are assigned to freshmen and then students are re-assigned to advisors within the respective discipline when a major field of concentration has been declared. Advisors serve as facilitators of communication, assist students in career planning, and perform academic progress reviews. Frequent advisor contact will help ensure students have current academic information and are making adequate progress toward educational goals.

### FRESHMAN YEAR

<i>Fall Semester</i>		<i>Sem. Hrs.</i>	<i>Spring Semester</i>		<i>Sem. Hrs.</i>
ENG 150	Rhetoric and Composition	3	ACC 201	Intro to Financial Accounting	3
RSP 103	Ratio Studiorum Program	1	PHL 107	Critical and Historical Intro	
HIS 101	Modern Western World	3		to Philosophy	3
THL 100	Christianity in Context	3	PSY 111	Introductory Psychology	3
Social Science (IVE*)		3	Natural Science (IVC*)		3-4
<b>(One of the following):</b>			MTH 201	Applied Mathematics	3
MTH 141	Applied Calculus	3			<b>15-16</b>
MTH 245	Applied Calculus	4			
		<b>16-17</b>			

### SOPHOMORE YEAR

<i>Fall Semester</i>		<i>Sem. Hrs.</i>	<i>Spring Semester</i>		<i>Sem. Hrs.</i>
ACC 202	Intro to Managerial Accounting	3	BUS 201	Legal Environment of Business	3
BUS 229	Statistical Analysis	4	ECO 205	Introductory Macroeconomics	3
COM 152	Principles of Comm. Comp.	3	MIS 253	Management Info. Systems	3
ECO 203	Introductory Microeconomics	3	PHL 250	Philosophical Foundations	
Scriptural Theology (200 level or above)**		3		for Ethical Understanding	3
		<b>16</b>	Non-restrictive Elective (VIIC*)		1-3
			<b>(One of the following):</b>		
* Refer to General Curriculum			ENG 120	World Literature I	3
** Except THL 250			ENG 121	World Literature II	3
					<b>16-18</b>

## *ACCOUNTING*

*Supervised by the Department of Accounting*

### *Mission Statement*

The Department of Accounting of the College of Business Administration exists to support the mission of the college in providing students with a value-centered, quality accounting education. To accomplish this mission, the department supports its faculty in their efforts to excel in teaching, research, and service, and encourages its faculty and staff to continue their personal and professional development.

### *Program for Business Administration Students*

For the degree of Bachelor of Science in Business Administration with Accounting as the field of concentration. The curriculum is concerned with conceptual understanding of accounting and accounting competence. The objective is to enable the student to comprehend the functions of accounting and the underlying concepts of accounting theory, and apply accounting knowledge to business problems.

The program is designed to prepare students for leadership in the community and careers in governmental, managerial or public accounting; teaching positions; one of the sub-fields of accounting, such as tax, accounting systems, and others; and for further graduate professional training.

#### *Required:*

1. Accounting 313, 315, 319, 343, 377, 423.
2. A three-hour elective from the following: Accounting 493, 516, 521, 544, and 579.

**Note:** Admission to the Accounting Program requires junior standing, a cumulative overall grade point average of 2.5 or better, no grade lower than “C” in 200-level Accounting courses, and/or permission of the Department Chair. A student whose performance has been marginal or who has not completed enough courses at Creighton to provide a basis for judgment, may be accepted with probationary status or deferred until the probability of successfully completing the Program can be determined. Retention in the Program is conditional upon demonstrating competence in upper division accounting courses.

## *ECONOMICS*

*Supervised by the Department of Economics and Finance*

### *Program for Business Administration Students*

For the degree of Bachelor of Science in Business Administration with Economics as the field of concentration. This program is designed to acquaint the student with the tools and techniques of economic analysis and the contribution of economic analysis to decision-making in the business firm and to society. The program is designed to prepare those interested in careers as economists or economic analysts in business, government, and non-government organizations and for graduate study in economics.

#### *Required:*

1. Economics 303 and 305. These should be taken in the junior year.
2. Twelve hours of 300, 400 or 500-level economics courses selected with the approval of the major advisor. Economics 301 does not apply to this requirement.

### *Program in Economics for Arts and Sciences Students*

The Department of Economics also provides a program of study for students in the College of Arts and Sciences who wish to obtain the degree of Bachelor of Arts with economics as the field of concentration.

### *The Field of Concentration for Arts and Sciences students (34 credits)*

*Concentration major:* BUS 229, ECO 203, 205, 303, 305, 508, and 15 hours of upper division courses in economics. Economics 203 and 205 should be taken before their junior year. Economics 303 and 305 should be taken in the junior year.

## **FINANCE**

### *Supervised by the Department of Economics and Finance*

For the degree of Bachelor of Science in Business Administration with Finance as the field of concentration. This curriculum is concerned with the study of financial institutions, and business, government, banking, insurance, and personal financial management. Emphasis is on the analysis and development of financial principles in all areas of financial decision-making, as well as career preparation as financial analysts in business, insurance and banking, and government service.

#### *Required:*

1. Finance 325 and 401.
2. Twelve hours from the finance electives (300- or 400-level).
3. With approval from the major advisor, one finance elective may be replaced by one of the following: ACC 301, ACC 313, or ECO 315.

## **INTERNATIONAL BUSINESS**

### *Supervised by the Department of Economics and Finance*

For the degree of Bachelor of Science in Business Administration with International Business as the field of concentration. This program is designed for those students who desire a broad-based understanding of international business operations, primarily from the viewpoint of a U.S. business entity. It is also designed to provide an International Business perspective as related to the functional areas of business and to permit experiential learning in a specific world region through study abroad programs.

#### *Required:*

1. Fifteen hours of course work in International Business: International Accounting (ACC 538), International Economics (ECO 538), International Management (MGT 373), Global Marketing (MKT 363), and International Financial Management (FIN 558).
2. The International Culture Requirement (Category III-B) must be met through six hours of intermediate level course work in a language. The International Business course requirement does not apply to this major.
3. Study Abroad: Each student must experience study abroad, with a minimum of six hours of study overseas, preferably in a region of foreign language expertise of the student. Course work must include three hours of business, to be approved by the faculty advisor.
4. A total of three business electives are required for the international business major.

## MARKETING

### *Supervised by the Department of Marketing and Management*

For the degree of Bachelor of Science in Business Administration with Marketing as the field of concentration. This program is designed for those students interested in preparing for the general field of marketing and/or for those wishing to prepare for specific careers in retailing, industrial marketing, advertising, sales management, and marketing research.

#### *Required:*

1. Marketing 333, 343, 473.
2. A minimum of nine hours from the following: Marketing electives (300- or 400-level). Other courses may be utilized with special approval of the department chair.

**Note:** Students contemplating marketing as a major are advised to take Marketing 319 the first semester of their junior year or in the previous summer session.

## MANAGEMENT

### *Supervised by the Department of Marketing and Management*

For the degree of Bachelor of Science in Business Administration with Management as the field of concentration. This program is designed for those students who have a very strong interest in business, but whose desire for specialization lies outside the traditional majors of accounting, economics, finance, international business, marketing, or management information systems. Students majoring in management can choose from any of five tracks:

Business Ethics, Entrepreneurial Management, Human Resource Management, Military Management (ROTC students only), or the 4-year Pre-law track.

Please see the listings below for the specific course requirements for each track.

**Business Ethics Track** (18 hours; 2 required courses and 4 elective courses)

#### **(Required:)**

ECO 528 Economic Development 3 credits

#### **(One of the following:)**

MGT 341 Advanced Organizational Behavior 3 credits

MGT 479 Seminar in Management 3 credits

PSY 369 Organizational Psychology 3 credits

#### **(Choose 4 electives from the list below:)**

*Courses should adhere to a unified theme that complements the student's business education in the areas of ethics and social responsibility.*

*For example, a student interested in ethics across business disciplines might take ACC 423, FIN 343, MIS 359, & MGT 373. A student interested in spirituality in the workplace might take JPS 365, PHL 353, PHL 368, and THL 572. A student interested in macro-ethics and business might take PHL 358, PHL 450, PLS 430, and SOC 331. Other combinations are possible. A student wanting help with options should visit with Dr. Beverly Kracher.*

ACC 423 Auditing 3 credits

ANT 455 Food, Society, and Environment 3 credits

COM 311 Ethics and the Uses of Rhetoric 3 credits

EVS 354 Environmental Ethics 3 credits

FIN 343 Social Insurance and Economic Security 3 credits

JMC 438 Media Ethics 3 credits

JPS 365 Faith and Moral Development 1 credit

MIS 354 Data Base Management 3 credits

MGT 373 International Management 3 credits

PHL 309 Meaning in America 3 credits

PHL 317 Philosophy of Sport 3 credits

PHL 331 Moral Philosophy 3 credits

PHL 348	Philosophy of Feminism	3 credits
PHL 354	Environmental Ethics	3 credits
PHL 351	Introduction to Chinese Philosophy	3 credits
PHL 353	Introduction to Buddhism	3 credits
PHL 355	Science, Technology, and Values	3 credits
PHL 358	Social and Political Philosophy	3 credits
PHL 359	The History of Ethics	3 credits
PHL 368	Moral Psychology	3 credits
PHL 435	Literature, Philosophy, and Economics:	3 credits
PHL 450	Philosophy and Commercial Societies	3 credits
PHL 453	Ethics and Public Policy	3 credits
PHL 459	Marxism	3 credits
PHL 482	Race in America: Idea and Reality	3 credits
PLS 340	International Politics	3 credits
PLS 430	Ethics and Market Reforms	3 credits
PLS 451	Theories of Peace and World Order	3 credits
SOC 331	Industry and Society	3 credits
SWK 409	Race and Gender Relations:Moral and Ethical Dilemma	3 credits
THL 572	Ethics and Spirituality	3 credits

Electives must be approved by the Marketing and Management Department Chair.

**Entrepreneurial Management Track** (18 hours; two required courses and four elective courses- One course must be FIN; One course must be MKT)

**(Required:)**

BUS 311	Entrepreneurship	3 credits
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**(One of the following:)**

MGT 341	Advanced Organizational Behavior	3 credits
MGT 479	Seminar in Management	3 credits
PSY 369	Organizational Psychology	3 credits

**Choose four electives adhering to a unified theme or focused area.**

*One of these electives should be a marketing course and one should be a finance course; these two courses (MKT and FIN) should relate as strongly to your chosen area of business (or theme, if you will) as possible. An entrepreneurship-related internship (BUS 366) may also be used as an elective.*

*For example, a student interested in a real estate business might take FIN 402 (Financing Entrepreneurial Ventures) and FIN 433 (Real Estate Finance), along with Sales Management (MKT 335), and then an additional elective.*

Electives must be approved by the Marketing & Management Department Chair

**Human Resources Management Track** (18 hours; three required courses and three elective courses)

**(Required:)**

COM 464	Training and Development	3 credits
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**(One of the following:)**

MGT 351	Personnel/Human Resources Management	3 credits
COM 370	Human Resource Administration	3 credits

**(One of the following:)**

MGT 341	Advanced Organizational Behavior	3 credits
MGT 479	Seminar in Management	3 credits
PSY 369	Organizational Psychology	3 credits

**(Choose 3 electives from the following list:)**

BUS 366	Internship (HR-related)	3 credits
COM 320	Leadership: Theories, Styles, and Skills	3 credits
COM 361	Interpersonal Communication	3 credits
COM 362	Small Group Communication	3 credits
COM 463	Organizational Assessment	3 credits
MGT 479	Seminar in Management	3 credits
PHL 368	Moral Psychology	3 credits
PSY 344	Social Psychology	3 credits
PSY 353	Industrial Psychology	3 credits
PSY 423	Tests and Measurement	3 credits

Electives must be approved by the Marketing and Management Department Chair

**Military Management Track** (Open only to ROTC students)

**(Required:)**

MIL 300	Leadership Laboratory III	1 credit
MIL 301	Small Unit Tactics & Leadership	3 credits
MIL 302	Advanced Small Unit Tactics & Leadership	3 credits
MIL 351	Advanced Leadership Camp Training	3 credits
MIL 400	Leadership Laboratory IV	1 credit
MIL 401	Military Professionalism & Ethics	2 credits
MIL 402	Military Management Seminar	2 credits
MGT 479	Leadership Seminar	3 credits

**Pre-Law Track** (18 hours; Six required hours and 12 elective hours)

**(Required:)**

BUS 301	Business Law	3 credits
BUS 321	Mock Trial Lecture	2 credits
BUS 322	Mock Trial Practicum	1 credit

**(Choose 4 courses from the following list:)**

ACC 343	Principles of Taxation	3 credits
ACC 544	Advanced Taxation	3 credits
BUS 366	Business Internship (Law related)	3 credits
COM 321	Persuasion	3 credits
COM 370	Human Resources Management	3 credits
HIS 354	Constitutional History of the U.S. to 1877	3 credits
HIS 355	Constitutional History of the U.S. since 1877	3 credits
HIS 372	Equality, Minorities, and Public Policy	3 credits
JMC 529	Law of Mass Communication	3 credits
MGT 351	Personnel/ Human Resource Management	3 credits
PHL 312	Symbolic Logic	3 credits
PHL 440	Legal Philosophy	3 credits
PLS 320	Judicial Process	3 credits
PLS 337	Constitutional Law	3 credits
PLS 367	Theory of Law	3 credits
PLS 438	Contemporary Issues in Civil Liberty	3 credits
PSY 363	Psychology and the Law	3 credits
SOC 321	Sociology of the Criminal Justice System	3 credits
SOC 323	Law and Society	3 credits

Electives must be approved by the Marketing and Management Department Chair.

## ***MANAGEMENT INFORMATION SYSTEMS***

### ***Supervised by the Department of Information Systems and Technology***

For the degree of Bachelor of Science in Business Administration with Management Information Systems as the field of concentration. This program is designed to combine the study of fundamental technical concepts of computer-based business information processing systems with a broad consideration of the organizational and behavioral issues associated with the design and management of such systems. It is designed to prepare students for careers in all areas of information management. In conjunction with a second major in another functional area of business, the program can be structured to provide a foundation for concentration in the management of specialized information resources.

***Required:***

1. MIS 354, 375, 459, and 470.
2. Six additional hours, from the following: MIS electives (300 or 400 level).

Other courses may be utilized with special approval of the Department Chair.

## *PRELEGAL EDUCATION AND COMBINED BUSINESS ADMINISTRATION - LAW PROGRAM*

A knowledge of business is highly desirable as a foundation for the study of law. Thorough knowledge of the principles and processes of an economic organization is essential to the proper understanding and application of legal principles. A knowledge of accounting is also helpful in connection with tax work.

### *General Prelegal Requirements*

The Creighton University School of Law will consider for admission applicants who have completed at least three-fourths of the college work required for the bachelor's degree in the College of Business Administration. Ninety-six semester hours are three-fourths of the total required for a degree from the College of Business Administration.

There are no specifically required prelegal subjects; but not more than 10 percent of the college credits presented may be in non-theory courses such as basic military science, hygiene, domestic arts, physical education, or similar courses.

In considering applicants for admission, consideration is given to the results of the Law School Admission Test, the applicant's college record, and other pertinent information.



### *Combined Business Administration-Law (3-3) Program*

Business administration students may receive both the degree of Bachelor of Science in Business Administration with the Prelaw Business major and the degree of Juris Doctor at the end of the fourth and sixth years respectively, subject to the following requirements:

Students following the B.S.B.A./J.D. program will be considered candidates for the B.S.B.A. degree following the completion of the first year in law; i.e., the fourth year of the program. Such candidates for the B.S.B.A. must file an application for degree with the University Registrar by February 14 for the degree to be conferred in May.

The student must complete 32 credit hours, with at least a “C” average, in the first full year of the Creighton University School of Law, and the student must have completed at least 48 undergraduate hours at Creighton University.

### *B.S.B.A., J.D., M.B.A.—Seven-Year Program*

Qualified students who want to earn three degrees (B.S.B.A., J.D., and M.B.A.) within a seven-year period can do it by following the 3-3 program described above and in the seventh year enrolling in the M.B.A. program. These programs provide an excellent preparation for employment in either the private or public sector of the economy.

### **3/3 Program Sample Plan of Study**

#### **FRESHMAN YEAR**

<i>Fall Semester</i>		<i>Sem. Hrs.</i>	<i>Spring Semester</i>	<i>Sem. Hrs.</i>	
ENG 150	Rhetoric and Composition	3	Natural Science (IVC*)	4	
			ACC 201	Intro to Financial Accounting	3
RSP 103	Ratio Studiorum Program	1	HIS 101	Modern Western World	3
MTH 141	Applied Calculus	3	MTH 201	Applied Mathematics	3
THL 100	Christianity in Context	3	PHL 107	Critical and Historical Intro	
PSY 111	Introductory Psychology	3		to Philosophy	3
Social Science (IVE*)		3			<b>16</b>
		<b>16</b>			

#### **SOPHOMORE YEAR**

<i>Fall Semester</i>		<i>Sem. Hrs.</i>	<i>Spring Semester</i>	<i>Sem. Hrs.</i>	
ACC 202	Intro to Managerial Accounting	3	BUS 201	Legal Environment of Business	3
BUS 229	Statistical Analysis	4	ECO 205	Introductory Macroeconomics	3
COM 152	Principles of Comm. Comp.	3	MIS 253	Management Info. Systems	3
ECO 203	Introductory Microeconomics	3	PHL 250	Philosophical Foundations	
Scriptural Theology (200 level or above)**		3		for Ethical Understanding	3
		<b>16</b>	Non-restrictive Elective (VIIC*)		3
			<b>(One of the following):</b>		
			ENG 120	World Literature I	3
			ENG 121	World Literature II	3
					<b>18</b>

#### **JUNIOR YEAR**

<i>Fall Semester</i>		<i>Sem. Hrs.</i>	<i>Spring Semester</i>	<i>Sem. Hrs.</i>	
BUS 356	Business Ethics	3	BUS 471	Strategic Management	3
FIN 301	Managerial Finance	3	MGT 385	Prod. and Oper. Management	3
MKT 319	Principles of Marketing	3	International Business (IIIB *elective)		3
MGT 301	Managerial Process and		Business Elective (VIIB*)		3
	Organizational Behavior	3	Business Elective (VIIB*)		3
<b>(One of the following):</b>					<b>15</b>
COM 314	Managerial Communications	3			
ENG 251	Advanced Composition	3			
		<b>15</b>			

\* Refer to General Curriculum

\*\* Except THL 250



### *Certificate in Business Administration (31 Credits)*

A student enrolled outside the College of Business Administration who does not plan to earn a bachelor's or master's degree from the College of Business Administration, may earn a Certificate of Business Administration. Students wishing to complete this program must file an application with the Undergraduate Coordinator in the College of Business Administration.

A certificate in Business Administration prepares a non-business student for graduate work in a Master of Business Administration Program. The certificate courses are the majority of the foundation courses, which along with a bachelor's degree in any discipline, are required for a student seeking admission to the M.B.A. and M.S.-I.T.M. programs.

A *Certificate of Business Administration* will be awarded to students who successfully complete the following requirements, a total of 31 semester hours:\*

ACC 201	Introduction to Financial Accounting	3 credits
ACC 202	Introduction to Managerial Accounting	3 credits
BUS 201	Legal Environment of Business	3 credits
BUS 229	Statistical Analysis	4 credits
ECO 203	Introductory Microeconomics	3 credits
ECO 205	Introductory Macroeconomics	3 credits
FIN 301	Managerial Finance	3 credits
MGT 301	Managerial Process and Org. Behavior	3 credits
MIS 253	Management Information Systems	3 credits
MKT 319	Principles of Marketing	3 credits

**\*Please Note:** The 31 required certificate hours is the maximum number of credits in which a non-business administration student may enroll in the College of Business Administration.

While no specific mathematics courses are required for the certificate, successful completion of BUS 229 will necessitate mathematical proficiency equivalent to MTH 201 (Applied Mathematics) and either MTH 141 (Applied Calculus) or MTH 245 (Calculus I).

Of the 31 required hours, at most 12 hours of transfer credits can be applied toward the Business Certificate. Once a student has matriculated to Creighton, only 6 of the 12 transfer hours allowed may be taken as transient study. In addition, the student must attain a cumulative GPA of 2.0 or better in all business administration courses.

Degree seeking students who have completed the requirements of the certificate will be awarded the Certificate of Business Administration at the time of graduation. Non-degree seeking students will be awarded the certificate upon completion of the requirements of the certificate.

## **GRADUATE STUDY**

### ***Master of Business Administration***

The College of Business Administration offers, through the Graduate School, an evening program of advanced professional training leading to the degree of Master of Business Administration. The primary objective of this program is to provide an opportunity for qualified individuals to develop knowledge, abilities, attitudes, and understandings which will constitute a foundation for their growth into effective administrators and creative leaders in business, industry, and government. Effective managerial decision-making is stressed rather than advanced study in a single area of concentration.

The M.B.A. Curriculum consists of 33 credit hours beyond the Foundation (24 hours of Core and 9 hours of Electives). Candidates holding a non-business baccalaureate degree must successfully complete M.B.A. Foundation courses (or their equivalent) in accounting, economics, finance, marketing, and statistics.

The College of Business Administration, the College of Arts and Sciences, the School of Pharmacy and Health Professions, and the School of Law offer combined Master of Business Administration/Doctor of Pharmacy, Master of Business Administration/Juris Doctor, and Master

of Business Administration/Master of Arts in International Relations degree programs. Candidates for these combined programs must make separate application to, and be independently accepted by the College of Business Administration, the College of Arts and Sciences, the School of Pharmacy and Health Professions and the School of Law.

### ***Master of Science in Information Technology Management***

The College of Business Administration offers, through the Graduate School, an evening program leading to the degree Master of Science in Information Technology Management. The M.S. degree offers students an innovative, interdisciplinary curriculum that integrates the study of information technology with the development of management skills. Admission requirements are the same as the M.B.A.

The M.S. curriculum consists of 33 credit hours beyond the Foundation (18 hours of Core and 15 hours of Electives) and includes intensive study in the areas of technology management of information systems, databases, networks and telecommunications, as well as systems analysis and logical design. Students may elect Digital Business as an area of emphasis within the M.S. degree by taking ITM 710, ITM 770, and ITM 790 as electives.

Candidates holding a non-business baccalaureate degree must successfully complete M.S. foundation courses (or their equivalent) in accounting, economics, finance, management information systems, marketing, and statistics.

The College of Business Administration offers a combined Master of Business Administration/Master of Science in Information Technology Management dual degree program. This combined degree program enables students to earn both the M.B.A. and M.S.-I.T.M. degrees in a streamlined 48-credit-hour program in considerably less time than if the two degrees were earned separately.

A joint Master of Science in Information Technology Management degree with an emphasis in Digital Business/ Juris Doctor is offered by the College of Business Administration and School of Law. Candidates for the combined programs must make separate application to, and be independently accepted by the School of Law and the College of Business Administration.

### ***Master of Security and Portfolio Management***

The College of Business Administration offers, through the Graduate School, an evening program leading to a degree Master of Security Analysis and Portfolio Management. The M.S.A.P.M. degree is designed to prepare students for advanced security analysis and portfolio management guided by a Code of Ethics and Standards of Professional Conduct. This degree program uses as its foundation the curriculum of the Chartered Financial Analyst (CFA)<sup>®</sup> program\*. The CFA program is grounded in the practice of the investment profession. According to the CFA Institute, the program of study for the CFA charter is based on “a job analysis survey involving CFA charterholders around the world to determine those elements of the body of investment knowledge and skills that are important to the professional practice of investment management.” The program of study has a significant foundation in theory as well as practical applications of the theory and tools provided. Students who complete the M.S.A.P.M. program will have the knowledge base to sit for each of the three levels of CFA exams but are not required to do so. More information on the CFA program is available at [www.cfainstitute.org](http://www.cfainstitute.org).

The M.S.A.P.M. curriculum consists of 30 credit hours beyond the Foundation (27 hours of Core and 3 hours of Electives). Candidates holding a non-business baccalaureate degree must successfully complete M.S.A.P.M. foundation courses (or their equivalent) in accounting, economics, finance, and statistics.

**\*CFA, CFA Program and Body of Knowledge are trademarks owned by the CFA Institute.**

# PROGRAMS OF STUDY-III

## SCHOOL OF NURSING

The School of Nursing offers three programs for undergraduate study leading to a Bachelor of Science in Nursing (B.S.N.) degree: the Traditional Program for qualified high school graduates and college transfer students, the Accelerated Nursing Curriculum Program (ANC) for qualified persons with non-nursing baccalaureate or higher degrees, and the RN-BSN degree completion program known as Linking Education and Practice (LEAP) for qualified graduates of diploma or associate degree programs in nursing. The traditional, ANC and the RN-BSN Programs also are offered on the satellite campus in Hastings, Nebraska. In addition, the School of Nursing offers a graduate program in nursing designed to prepare nurses for advanced practice. The graduate program in nursing is offered on the Omaha campus. Selected graduate nursing program courses are delivered through distance learning on the Hastings campus.

### *STATEMENT OF OBJECTIVES*

The School of Nursing provides opportunities and guidance for students to master the knowledge and skills necessary to become competent professional nurses and to develop their individual intellectual, spiritual, and physical potential. Qualities considered highly desirable for nursing are critical thinking skills; sensitivity to feelings, responses, and needs of others; professional communication skills; integrity and a developed sense of values. The School believes that understanding and managing the care of clients can only be achieved by balancing the knowledge and skills gained in the humanities, basic sciences, and nursing.

Nursing is an applied discipline devoted to achieving the outcomes of health promotion, protection, maintenance, and restoration for diverse populations in various settings. Nursing uses theory and research from the health sciences, physical and social sciences and humanities as the basis for managing the care of individuals, families, groups, and communities from diverse cultures. Collaboration among health disciplines in conjunction with clients enhances the quality of health care and achievement of health care outcomes. Students are provided with learning opportunities that enhance their knowledge base, critical thinking abilities and professional competency. Completion of any of the three undergraduate programs prepares students to practice as generalists in a variety of settings with diverse populations. Because of the School's belief that learning is a lifelong endeavor, completion of any of the three undergraduate programs provides a foundation for advanced study at the graduate level.



## ***PROGRAM OF STUDY IN NURSING***

The baccalaureate program in nursing is designed to prepare qualified graduates for generalist practice in multiple settings with diverse populations. Upon completion of degree requirements, students are eligible to take the Registered Nurse (RN) licensure examination.

### ***Traditional Nursing Curriculum***

The well-prepared high school graduate ordinarily spends four academic years completing the requirements for the degree of Bachelor of Science in Nursing. This four-year curriculum leading to the degree is referred to as the "traditional program" in nursing. During the freshman year, a student in the traditional program is enrolled in nursing seminar courses, liberal arts and sciences courses. During the sophomore year, students are offered nursing courses in health assessment, pathophysiology, lifespan development, and nutrition as well as other basic science and humanities courses. These courses are the foundation for the practicum courses at the junior and senior levels. During their junior and senior years, traditional program students are enrolled in nursing practicum courses focusing on outcome-based nursing practice. Emphasis is placed on using the care management process as a framework for achieving optimal outcomes through health promotion, protection, maintenance, and restoration of altered health states. The senior year culminates in a preceptored practicum designed to provide a concentrated experience in complex collaborative nursing care management under the supervision of a nurse preceptor. The practicum experiences are obtained in a variety of hospital and community-based agencies to enrich the learning opportunities. The School of Nursing provides the instruction for the practicum experiences in collaboration with the cooperating agencies.

## ***ACADEMIC REQUIREMENTS***

### ***Admission***

High School graduates who are first time freshman wishing to pursue the traditional program of study leading to the degree of Bachelor of Science in Nursing (B.S.N.) apply to Creighton University's Office of Undergraduate Admissions. General admission requirements for freshman and transfer students are listed in the Creighton University Undergraduate Bulletin under the heading "Admissions."

The School of Nursing recommends that these students pursue a strong college preparation course of study in high school, which would include courses in biology and math. An ACT composite score of at least 22 is recommended. High school chemistry or its equivalent is required for admission into the School of Nursing. Students with Math ACT less than 20 (or SAT less than 450) may be required to enroll in MTH 135 "College Algebra" and complete it with a grade of "C" or better. Demonstrated academic competencies in high school or college-level math courses will be taken into consideration.

Transfer students from non-nursing and nursing majors may be admitted providing the School of Nursing can accommodate them. If transferring from another program of nursing, a letter of recommendation from the dean or chair of the program of nursing in which the student was previously enrolled, must be submitted. Course descriptions or course syllabi of any previous nursing courses must be submitted for evaluation at the request of the School of Nursing's Undergraduate Admissions and Promotions Committee and/or Associate Dean for Student Affairs.

Admission to the School of Nursing is a two-tiered process. Acceptance is conditional until both separate steps are successfully completed.

1. Academic acceptance is based solely on academic credentials.
2. Validation of the applicant's ability to meet the cognitive, affective, and psychomotor requirements of the challenging nursing curriculum, with or without reasonable accommodations, consistent with the American Disabilities Act is required. Students must complete the Safety and Technical Standards form attesting to the ability to meet these requirements.

### ***Advanced Placement and Credit***

The policies of the College of Arts and Sciences governing the granting of advanced placement and/or credit apply to students in the School of Nursing except for selected nursing courses.

### ***Other Requirements***

Certain conditions of enrollment must be met to insure access to placement in clinical settings.

1. Completion of immunizations required of all Creighton University Health Sciences students
2. Background investigations of all accepted students.
3. Drug testing consistent with clinical agency contracts.
4. Completion of physical examination to provide evidence that the student is free from contagious disease and not a health hazard to patients in various settings.
5. Completion of certification in Basic Life Support (BLS). Either Red Cross- "Basic Life Support for Professional Rescuer" or American Heart Association Level C, Health Care Providers are accepted. Courses should be labeled "Professional Level" and include instruction of the Automated External Defibrillator (AED).

### ***Minor in Arts and Sciences***

Students in the School of Nursing may pursue a minor in the College of Arts and Sciences. The second field is in addition to the B.S.N. degree; students **do not** receive a B.A. or B.S. degree from Arts and Sciences. Requirements of the minor are listed in each department's entry in the Bulletin and websites. To apply for a minor, the student should contact the Associate Dean of Student Affairs in the School of Nursing for appropriate consultation and referral.

### ***Requirements for Graduation***

A candidate for a B.S.N. degree must have earned a minimum of 128 semester hours of credit with a grade point average (GPA) of 2.00 or above. A 2.00 average or above is required for all courses in the field of concentration, all support courses to nursing, and all required natural and social/behavioral sciences.

## ***CURRICULAR REQUIREMENTS***

The nursing curriculum offers a prescribed sequence of courses and learning experiences that provide for the progressive development of knowledge and skills necessary for practice as a nurse generalist. Courses are sequential in nature and must be taken in the order identified. The program also establishes the foundation for graduate study in nursing. Nursing courses for all curricula may be transmitted from either the Omaha or Hastings campus.

**Traditional Curriculum.** The traditional baccalaureate curriculum is designed for recent high school graduates or transfer students and requires eight (8) semesters of full-time study at either the Omaha or Hastings campus.

### ***A. General Information***

1. Omaha campus freshman Nursing students who receive an ACT Composite score of 21 or below are required to take RSP 120 "Strategies for Academic Success" during their first semester. A similar course is available on the Hastings College campus (STS 100 "Transition Seminar"). These students may also be encouraged to follow a 5-year plan of studies.
2. Freshman nursing students on either campus who earn a fall semester midterm Grade Point Average (GPA) below 2.2 are required to seek Academic Success assistance in person or by phone or email from Counseling Center or Student Services.
3. Freshman students who do not attain a 2.2 cumulative GPA in the fall semester are required to register for RSP 120 during the spring semester. If the final fall semester GPA is 2.2 or higher, the scheduled RSP 120 may be dropped. The student is still encouraged to seek academic assistance from the Counseling Center.

### ***B. Traditional Baccalaureate Curriculum Plan- Omaha and Hastings Campuses***

1. Core Curriculum Categories Total = 57 semester hours. General Education courses fall into six categories. The School of Nursing follows a modified version of the Core Curriculum established by the College of Arts and Sciences.
2. Entering freshman students to the Creighton University-Hastings College traditional nursing curriculum follow a modified version of the Creighton University and Hastings College Core Curricula.
3. Transfer students may enter the traditional curriculum at various points, based on individual evaluations of past academic history. Descriptions of past courses will be compared to Creighton University courses for equivalency and granting of transfer courses.
4. Transfer students on the Hastings campus follow the traditional baccalaureate curriculum for transfer students rather than the curriculum for Hastings freshman taking all core classes at Hastings College.

## ***GENERAL CURRICULUM***

The General Curriculum requirements, as stated in Categories A-F below, apply to all School of Nursing students.

### **Categories**

A.	Theology, Philosophy and Ethics	12 credits
B.	Cultures, Ideas and Civilizations	12 credits
C.	Natural Science	19 credits
D.	Social and Behavioral Sciences	6 credits
E.	Skills	5 credits
F.	Electives	<u>3 credits</u>
		57 credits

**CORE CATEGORY A: Theology, Philosophy and Ethics - 12 hours**

One course chosen from each of the following areas is required.

*Christianity in Context*

**THL 100** Christianity in Context

*Scripture*

**THL 201** Reading the Old Testament

**THL 202** Creation and Apocalypse

**THL 203** Biblical Ancestors and Heroes

**THL 205** Sickness, Disability, and Healing in the Bible

**THL 207** Reading the New Testament

**THL 208** New Testament Communities and Their Stories

**THL 209** The Synoptic Gospels: The Life of Jesus

**THL 210** Applying the Memory of Jesus: Community of John

**THL 212** Paul and His Legacy

*Foundations for Ethical Understanding*

**PHL 250** Philosophical Foundations for Ethical Understanding

**THL 250** Theological Foundations for Ethical Understanding

*Applied Ethics*

**NUR 474** Applied Nursing Ethics

**CORE CATEGORY B: Cultures, Ideas and Civilizations - 12 hours**

*History*

**HIS 101** The Modern Western World

*Philosophy*

**PHL 107** Critical and Historical Introduction to Philosophy

*World Literature I*

**ENG 120** World Literature I

*World Literature II*

**ENG 121** World Literature II

**CORE CATEGORY C: Natural Science - 19 hours\***

*Basic Human Anatomy*

**BMS 111** Basic Human Anatomy

*Physiology*

**BMS 303** Physiology

*General Chemistry*

**CHM 111** Fundamentals of General Chemistry

*Biological Chemistry*

**+CHM 112** Fundamentals of Biological Chemistry

*And*

**CHM 113** Fundamentals of Chemistry Lab

*Microbiology*

**MIC 141** Microbiology

\* Courses are considered to be nursing support courses. Student must receive a "C" or better in each course.

+ All traditional undergraduate students are required to have Biological Chemistry content by taking either CHM 112/113, Fundamentals of Biological Chemistry/Lab or CHM 321/322 and 323/324, Organic Chemistry. CHM 112/113 may be taken in the sophomore year, Spring Semester.

## **CORE CATEGORY D: Social and Behavioral Sciences - 6 hours**

*One course chosen from each of the following areas is required.\**

### *Behavioral Sciences*

**PSY 111** Introductory Psychology

### *Social Sciences*

**SOC 101** Self and Society

**ANT 111** Human Variation

**SOC 223** Social Problems: Values, Issues, and Public Policy

## **CORE CATEGORY E: Skills - 5 hours (Including but not limited to):**

<b>COM 152</b>	Principles of Comm. Competence	<b>ARA 101/102</b>	Elementary Modern Arabic I and II
<b>ENG 150</b>	Rhetoric and Composition	<b>ARA 115</b>	Elementary Modern Standard Arabic
<b>MTH 135</b>	College Algebra	<b>ARA 201</b>	Intermediate Modern Arabic I
<b>MTH 137</b>	Trigonometry	<b>FRN 101/102</b>	Beginning French I and II
<b>MTH 201</b>	Applied Mathematics	<b>FRN 115</b>	Intensive Beginning French
<b>MTH 245</b>	Calculus I	<b>FRN 201</b>	Intermediate French I
<b>PSY 211</b>	Introductory Statistics	<b>FRN 202</b>	Intermediate French II
<b>ART 104</b>	Elementary School Art	<b>GER 101/102</b>	Beginning German I and II
<b>ART 105</b>	Art Fundamentals	<b>GER 115</b>	Intensive Beginning German
<b>ART 153</b>	Sculpture I	<b>GER 201</b>	Intermediate German I
<b>ART 211</b>	Introductory Ceramics	<b>GER 202</b>	Intermediate German II
<b>ART 253</b>	Sculpture II	<b>GRK 101/102</b>	Beginning Greek I and II
<b>ART 271</b>	Photography Studio I	<b>GRK 201</b>	Selected Readings in Classical Greek
<b>ART 390</b>	Sculptural Glass Casting	<b>HEB 101/102</b>	Intro to Classical Hebrew I and II
<b>DAN 101</b>	Introduction to the Dance	<b>ITA 101/102</b>	Beginning Italian I and II
<b>DAN 110</b>	Dance Workshop I	<b>ITA 201</b>	Intermediate Italian I
<b>DAN 111</b>	Dance Workshop II	<b>ITA 202</b>	Intermediate Italian II
<b>DAN 121</b>	Basic Modern Dance I	<b>JPN 101/102</b>	Beginning Japanese I and II
<b>DAN 131</b>	Classical Ballet Studio, Basic I	<b>JPN 201</b>	Intermediate Japanese I
<b>DAN 153</b>	Stagecraft	<b>JPN 202</b>	Intermediate Japanese II
<b>MUS 208</b>	Jazz Ensemble I	<b>LAT 101/102</b>	Beginning Latin I and II
<b>MUS 209</b>	Gospel Choir I	<b>LAT 115</b>	Intensive Beginning Latin
<b>MUS 212</b>	University Chorus I	<b>LAT 201</b>	Intermediate Readings in Latin Prose
<b>MUS 218</b>	Wind Ensemble I	<b>RUS 101/102</b>	Beginning Russian I and II
<b>MUS 219</b>	Javanese Gamelan	<b>RUS 201</b>	Intermediate Russian I
<b>MUS 220</b>	University Orchestra I	<b>SPN 101/102</b>	Beginning Spanish I and II
<b>MUS 271</b>	Voice Class	<b>SPN 113</b>	Beginning Spanish for the Med. Prof. I
<b>MUS 313</b>	Chamber Choir	<b>SPN 114</b>	Beginning Spanish for the Med. Prof. II
<b>THR 121</b>	Oral Interpretation of Literature	<b>SPN 115</b>	Intensive Beginning Spanish
<b>THR 131</b>	Beginning Acting	<b>SPN 201</b>	Intermediate Spanish I
<b>THR 153</b>	Stagecraft	<b>SPN 202</b>	Intermediate Spanish II
<b>THR 271</b>	Voice Class	<b>SPN 213</b>	Intermediate Spanish for the Med. Prof.

(NOTE: Selection of courses in this category must represent at least two disciplines, e.g., Math and Languages). (ENG 150 required if English ACT is below 22).

The following courses are considered remedial in nature will not be counted for credit (e.g., ENG 100, 105, MTH 101, 103).

## **CORE CATEGORY F: Electives - 3 hours (choice of the student).**

\* Courses are considered to be nursing support courses and are required to enter sophomore level courses. Student must receive a "C" or better in each of these courses.



## Traditional Baccalaureate Curriculum - 128 Credits

### FRESHMAN YEAR (35 Semester Hours)

<i>Fall Semester</i>	<i>Sem. Hrs.</i>	<i>Spring Semester</i>	<i>Sem. Hrs.</i>
BMS 111 Basic Human Anatomy	4	CHM 112/113 Fundamentals of Biological Chemistry/Lab	4
RSP 102 An Introduction to the Culture of Collegiate Life	1	HIS 101 The Modern Western World	3
PSY 111 Introductory Psychology	3	BMS 303 Physiology	4
SOC 101 or ANT 111 or SOC 223	3	ENG 120 World Literature I	3
CHM 111 Fundamentals of General Chemistry	3	THL 100 Christianity in Context	3
NUR 116 Opportunities in Professional Nursing	1		18
Skills (ENG 150 required if ENG ACT score below 22)	<u>3</u>		
	17		

### SOPHOMORE YEAR (33 Semester Hours)

<i>Fall Semester</i>	<i>Sem. Hrs.</i>	<i>Spring Semester</i>	<i>Sem. Hrs.</i>
NUR 224 Health Assessment	2	NUR 252 Human Pathophysiology	3
NUR 225 Health Assessment Practicum	1	NUR 253 Human Pathophysiology Practicum	1
NUR 228 Lifespan Development	3	NUR 223 Nutrition**	2
MIC 141 Microbiology	4	THL 200 Level	3
Skills Course	2	PHL 250 Ethics	3
PHL 107 Critical and Historical Introduction to Philosophy	<u>3</u>	Elective	3
	15	ENG 121 World Literature II	<u>3</u>
			18

### JUNIOR YEAR (33 Semester Hours)

<i>Fall Semester</i>	<i>Sem. Hrs.</i>	<i>Spring Semester</i>	<i>Sem. Hrs.</i>
NUR 361 Informatics in Health Care**	2	NUR 353 Principles of Population-based Health Care	3
NUR 362 Informatics Practicum	1		
NUR 351 Care Mgt. Concepts for Health Promotion, Protection, Maintenance, and Restoration	5	NUR 371 Care Mgt. Processes for Episodic and Chronic Health Alterations I	5
NUR 352 Care Mgt. Practicum I	4	NUR 372 Care Mgt. Practicum II	5
NUR 341 Nursing Mgt. of Pharmacotherapy	3	NUR 354 Power, Politics, and Policy in Health Care**	<u>2</u>
NUR 377 Research for Health Professionals	<u>3</u>		15
	18		

### SENIOR YEAR (27 Semester Hours)

<i>Fall Semester</i>	<i>Sem. Hrs.</i>	<i>Spring Semester</i>	<i>Sem. Hrs.</i>
NUR 471 Care Mgt. Processes for Episodic and Chronic Health Alterations II	5	NUR 481 Senior Seminar in Professional Nursing	2
NUR 472 Care Mgt. Practicum III	5	NUR 482 Senior Preceptorship	<u>10</u>
NUR 473 Leadership for Care Management**	2		12
NUR 474 Applied Nursing Ethics**	<u>3</u>		
	15		

Students on the Hastings Campus are required to meet the same program requirements. The School of Nursing has collaborated with Hastings College to meet the general education requirements required for graduation. The Plan of Study is available through the School of Nursing's Office of Student Affairs.

Special Curricula are available for students wishing to pursue their academic studies over five years, as a preparation for medical school or as a member of the Army or Air Force ROTC. Creighton School of Nursing is a Center of Excellence for the Army ROTC and designates a specified number of class reservations to scholarship winners.

\*\* May be used a part of the University Honors Program.

## *ACCELERATED NURSING CURRICULUM PROGRAM (ANC)*

The Accelerated Curriculum in Nursing was initiated at Creighton University in May of 1975. It is a one-calendar-year program for individuals who hold non-nursing baccalaureate or higher degrees. Before admission to the program, an individual must have completed the courses in the social/behavioral and natural sciences (or acceptable substitutes) required in the traditional program. A Bachelor of Science in Nursing (B.S.N.) degree is awarded at graduation.

### *Admission*

Individuals who hold a baccalaureate degree in another field and want to pursue a B.S.N. may apply directly to the School of Nursing. Admission decisions are based on the following criteria:

1. A baccalaureate or higher degree in another discipline from an accredited college or university.
2. Evidence of academic achievement of **at least** 3.0 grade point average or higher on a 4.0 scale. (No applicants are considered with a grade point average below 3.0).
3. Completion of courses (with a minimum of "C" or above) meeting or equivalent to prerequisite courses for a major in nursing.
4. Evidence of potential and motivation for nursing.
5. Evidence of prior work success and/or ability to handle academic schedules. This includes providing to the School of Nursing transcripts from all colleges attended.
6. Three recommendations addressing academic and personal attributes.

### *Prerequisite Requirements*

The following courses and other requirements must be completed prior to beginning the Accelerated (B.S.N.) Curriculum. Applicants may be conditionally accepted to the class of their choice prior to completion of designated prerequisites if their plan of study indicates that all will be completed prior to entry. However, a file will not be considered until two chemistry courses and either anatomy or anatomy and physiology are completed. All students must provide evidence of completion via official transcripts prior to starting the program. All courses must carry a grade of "C" or above to be accepted for transfer to Creighton.

1. 36 semester hours of general education. (These will be allocated from the liberal arts and sciences completed in previous baccalaureate degree.)
2. Behavioral Sciences (12 semester hours)
  - A. **General Psychology** (3 sem. hrs.)
  - B. **General Sociology or Cultural Anthropology** (3 sem. hrs.)
  - C. **Developmental Psychology** (3 sem. hrs.). This course should cover the lifespan through old age. If an applicant completed a course in only child and adolescent Psychology, an additional independent study (through Creighton) in adulthood and aging is required prior to beginning the program.
  - D. **Bioethics or Ethics** (3 sem. hrs.). The application of ethical theories to contemporary problems of human life; emphasizes the process of making ethical/moral judgments. (Courses usually offered from the Philosophy Department.)
3. **Nutrition** (2 sem. hrs.)
4. **Physical and Biological Sciences** (19-20 sem. hrs.)
  - A. **Microbiology** (4 sem. hrs.)
  - B. **Chemistry** (7 or 8 sem. hrs. - may be either General Chemistry I and II or a Chemistry Survey course followed by Organic and/or Biochemistry.)
  - C. **Anatomy and Physiology** (8 sem. hrs. - this may be two combined courses or a human anatomy course and a mammalian or vertebrate physiology course.)
  - D. If previous science courses are on the quarter system (quarter hr. = 2/3 semester hr.) all the equivalent prerequisite courses must be completed and the total semester credits must be at least 18 (same as 27 quarter hrs.) If science credits do not total 18, it will be necessary to take additional science credits. (Nutrition credit does not count toward the 18).

4. Science credits earned over 10 years ago will be individually evaluated.
5. Applicants must be certified in Basic Life Support (BLS) on entry into the program. Either Red Cross - "Basic Life Support for the Professional Rescuer," or Heart Association - Level C, Health Care Providers are accepted. Courses should be labeled "Professional Level" and include instruction of the Automated External Defibrillator (AED).
6. All applicants are required to complete the Safety and Technical Standards Form, background investigation and meet admission requirements related to required immunizations and drug screening.
7. Computer Literacy is not required as a prerequisite course to the program. However, students should be computer proficient since some assignments require this skill.
8. All Accelerated Nursing applicants who are English-as-a-second-language (ESL) students are required to take the TOEFL exam. The minimum score on the paper-based exam is 600, on the computer-based exam it is 250 and on the internet-based exam (iBT) the score is 100. Scores over 2 years old will not be accepted. All ESL students will be required to take the TOEFL, even if they have a college degree from a United States university.

## *ACCELERATED NURSING CURRICULUM*

### **FIRST SEMESTER**

NUR 252	Pathophysiology	3 credits
NUR 288	Health Assessment	2 credits
NUR 289	Health Assessment Practicum	1 credit
NUR 290	Care Management Concepts for Health Promotion and Outcomes Improvement	5 credits
NUR 291	Care Management for Health Promotion and Outcomes Improvement Practicum	5 credits
NUR 341	Nursing Management of Pharmacotherapy	3 credits
		<u>19 credits</u>

### **SECOND SEMESTER**

NUR 381	Care Management of Populations	2 credits
NUR 382	Care Management of Populations Practicum	1 credit
NUR 386	Research and Evidence-Based Knowledge for Care Management	3 credits
NUR 390	Care Management and Outcomes Improvement for Altered Health States	6 credits
NUR 391	Care Management and Outcomes Improvement for Altered Health States Practicum	6 credits
NUR 394	Health Care Management and Leadership	2 credits
		<u>20 credits</u>

### **THIRD SEMESTER**

NUR 493	Dissemination of Research and Evidence-Based Knowledge	1 credit
NUR 494	Seminar in Professional Nursing	4 credits
NUR 496	Care Management and Outcomes Improvement for Complex Altered Health States	4 credits
NUR 497	Care Management and Outcomes Improvement for Complex Altered Health States Practicum	4 credits
NUR 498	Senior Preceptorship	6 credits
		<u>19 credits</u>

## ***RN-BSN PROGRAM***

The RN-BSN Program also known as Linking Education and Practice Program (LEAP) option is available for Registered Nurses (RNs) who wish to pursue a program of study leading to the degree of Bachelor of Science in Nursing. The RN-BSN Program is designed to meet the educational objectives of the traditional program while considering the special needs of RNs. All required courses have been specifically designed for the RN Student. This program is comprised of transfer credit already earned, credits earned by validation and formal course enrollment. Nursing classes meet one day a week and online. Clinical requirements are individually designed and may be completed in the work setting. However, students may be required to complete some clinical requirements at clinical agencies other than the students own work setting.

### ***Admission***

Registered Nurses who have graduated from an associate degree program or diploma program in nursing, who show evidence of consistent academic ability, and are eligible for licensure in Nebraska, may apply directly to the School of Nursing Admissions Office. RNs who have not practiced nursing in the past five years will be considered on an individual basis. Applicants must submit an application and the following documents to the School of Nursing Admissions Office:

1. Official college and School of Nursing transcripts
2. Safety and Technical Standards Form
3. Background investigation check.
4. A copy of current Nursing license
5. Two letters of reference, one from the dean or director of the basic nursing program and one from the most recent nursing employer. If the student graduated longer than five years ago, both reference letters should be from employers or peers.
6. An interview may be required at the discretion of the Program Chair or Admissions and Promotions Committee.

### ***Progression Policies***

General progression policies apply. A maximum of five years is allowed to complete the curriculum. Students who have not earned Creighton credit in a one-year period (unless on leave of absence) will be considered to have withdrawn and must apply for readmission to the program.

### ***LEAP Curriculum Requirements***

There are 49 credits required as nursing support courses. Nursing support courses can be completed before enrollment in the LEAP curriculum. Support courses can also be completed while enrolled in LEAP nursing courses provided that pre-requisite courses are met. Sixteen of these credits must be natural science hours. A three-credit-hour theology course and a three-credit-hour ethics course are required. Nine semester hours of sociology and psychology courses are required.

A flexible transfer policy is in place. Prerequisites are the same as the traditional program. There are 39 credit hours in the nursing courses. Students may substitute selected graduate nursing courses to meet nursing support course requirements.

Following successful completion of NUR 317 and 318, students will be awarded 40 semester hours of nursing credit for validation of prior learning.

**CREIGHTON UNIVERSITY SCHOOL OF NURSING  
RN-BSN CURRICULUM**

**SUMMER SESSION (13)**

NUR 108	RN Seminar	1 credit
NUR 224+	Health Assessment	2 credits
NUR 225+	Health Assessment Lab	1 credit
NUR 252++	Human Pathophysiology	3 credits
NUR 317*	Professional Nursing Transition	3 credits
NUR 318*	Professional Practice Lab	2 credits
NUR 320	Informatics for Health Care Professionals	1 credit

**FALL SESSION (13)**

NUR 363	Principles of Population-Based Health Care	2 credits
NUR 364	Principles of Population-Based Health Care Practicum	1 credit
NUR 441 **	Nursing Care Management and Outcomes Improvement I	3 credits
NUR 442 **	Care Management Lab I	3 credits
NUR 377	Research for Health Professionals	3 credits
NUR 330	Clinical Informatics Lab	1 credit

**SPRING SESSION (13)**

NUR 354	Power, Politics and Policy in Health Care	3 credits
NUR 461	Nursing Care Management and Outcomes Improvement II	3 credits
NUR 462	Care Management Lab II	4 credits
NUR 478	Leadership for Care Management	2 credits
NUR 490	Data Management Lab	1 credit

**TOTALS HOURS REQUIRED**

Nursing Credit Hours Required	39
Validated Credit Hours	40
Support Course Credits Required	49#
<b>TOTAL CREDIT HOURS</b>	<b>128</b>

**GRADUATE COURSES\*\*\***

+ Anatomy and Physiology prereq to NUR 224/225.

++ Anatomy and Physiology; Chemistry and Microbiology prereq to NUR 252

\* Ethics (pre/coreq to NUR 317/318)

\*\* Culture, Ideas and Civilizations (pre/coreq to NUR 441/442); Psychology, Sociology and Developmental Psychology (pre/coreq to NUR 441/442)

# Specific nursing support courses are pre/co-requisite to some NUR courses. Consult Bulletin for complete listings of course descriptions and pre- and co-requisites.

\*\*\* Selected Graduate Courses that can be taken in place of certain Nursing Support Credits.

### **RN-BSN NURSING SUPPORT COURSES#**

*Core Category A: Theology and Ethics (6 semester hours)*

Theology - (3 semester hours)

Ethics - (3 semester hours)

*Core Category B: Culture, Ideas and Civilizations (12 semester hours)*

Including but not limited to: History, World Literature, Philosophy, International and Global Studies

*Core Category C: Natural Sciences - (16 semester hours)*

Human Anatomy - (4 semester hours)

Physiology - (4 semester hours)

Chemistry - (4 semester hours)

Microbiology - (4 semester hours)

*Core Category D: Social and Behavioral Science (9 semester hours)*

Sociology (3 semester hours)

Psychology (3 semester hours)

Developmental Psychology (3 semester hours)

*Core Category E: Skills (3 semester hours)*

Including, but not limited to: English, Math, Speech, Languages

*Core Category F: Electives (3 semester hours)*

# Specific nursing support courses are pre/co-requisite to some NUR courses. Consult Bulletin for complete listings of course descriptions and pre- and co-requisites.



# PROGRAMS OF STUDY—IV

## UNIVERSITY COLLEGE

Creighton's University College (<http://adultdegrees.creighton.edu/>) is an undergraduate college for non-traditional students wishing to pursue a degree or certificate program or who want to take classes for personal enrichment or professional advancement.

### *The Mission*

In order to provide a value-centered education for its students in an atmosphere of concern for the individual, University College participates in the Catholic and Jesuit mission of Creighton, extending the commitments and resources of the University beyond traditional academic boundaries.

### *Admission*

The normal minimum age for admission to University College is 23. Students may attend daytime or evening classes on a full- or part-time basis. Students will need to complete an application for admission. Students who have been accepted as degree- or certificate-seeking students are eligible to apply for financial aid. Special students taking courses not leading to a degree or certificate are not eligible for most financial aid. Persons who have been dismissed from any educational institution in the previous year are not eligible to enroll in University College.

## THE PROGRAMS

### *Bachelor's Degree Programs*

University College degree-seeking students may follow bachelor's degree programs from the College of Arts and Sciences or the College of Business Administration. Students may earn degrees in any of the major areas of study in either college. See page 100 for Arts and Sciences majors, and page 226 for Business Administration majors. While not all of these majors can be completed solely through evening offerings, there are many majors that lend themselves to the schedule of working adults. University College students may also follow a degree program offered in cooperation with the School of Pharmacy and Health Professions and leading to a Bachelor of Science in Emergency Medical Services (B.S.E.M.S.). Students may also follow a degree completion program offered in cooperation with the School of Dentistry and leading to a Bachelor of Science in Dental Hygiene (B.S.D.H.).

### *DEGREE REQUIREMENTS FOR BACHELOR OF ARTS, BACHELOR OF SCIENCE AND BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION*

Specific degree requirements can be found on pages 100-225 and 226-241 for the Colleges of Arts and Sciences and Business Administration programs respectively.



## ACCELERATED CREIGHTON

University College offers an accelerated Bachelor of Arts degree leading to majors in Communication Studies (Organizational Communication track) and English with a specialization in Creative Writing. All required core and major courses that normally take a full semester to complete, are offered on an intense eight-week schedule, meeting one evening per week. This allows the student to complete 12 hours (four courses) in a semester. This schedule permits a student to complete a degree in four years or less while continuing to work fulltime. The curriculum includes the College of Arts and Sciences core curriculum along with major requirements and electives. Students can use transfer courses when applicable to speed degree completion. Candidates for the baccalaureate degree must complete a minimum of 128 credit hours.

*Accelerated Creighton* also offers an Associate in Arts degree with a major in Organizational Communication and Certificates in Organizational Communication and Creative Writing which can be completed in the accelerated format. For a listing of the major requirements for the Associate in Arts Degree please consult page 267.

### CORE CATEGORY A-D

Core A-D follows the College of Arts and Science Core (see pages 102-106 for list).

### CORE CATEGORY E — SKILLS

#### *College Writing*

**ENG 150** Rhetoric and Composition

#### *Mathematics — (one of the following)*

**MTH 125** Practical Math

**MTH 135** College Algebra

**MTH 201** Applied Mathematics

**MTH 245** Calculus I

#### *Speech/Studio/Performing Arts - (three credits chosen from either of the following two areas)*

##### *Speech*

**COM 152** Principles of Communication Competence

##### *Studio/Performing Arts*

<b>ART 104</b>	Elementary School Art (Ed. Majors only)	<b>MUS 208</b>	Jazz Ensemble I
<b>ART 105</b>	Art Fundamentals	<b>MUS 209</b>	Gospel Choir I
<b>ART 153</b>	Sculpture I	<b>MUS 212</b>	University Chorus I
<b>ART 211</b>	Introductory Ceramics	<b>MUS 218</b>	Wind Ensemble I
<b>ART 253</b>	Sculpture II	<b>MUS 219</b>	Javanese Gamelan
<b>ART 271</b>	Photography Studio I	<b>MUS 220</b>	University Orchestra I
<b>ART 390</b>	Sculptural Glass Casting	<b>MUS 271</b>	Voice Class
<b>DAN 101</b>	Introduction to the Dance	<b>MUS 313</b>	Chamber Choir
<b>DAN 110</b>	Dance Workshop I	<b>THR 121</b>	Oral Interpretation of Literature
<b>DAN 111</b>	Dance Workshop II	<b>THR 131</b>	Beginning Acting
<b>DAN 121</b>	Basic Modern Dance I	<b>THR 153</b>	Stagecraft
<b>DAN 131</b>	Classical Ballet Studio, Basic I	<b>THR 271</b>	Voice Class
<b>DAN 153</b>	Stagecraft		

#### *Languages - 6 credit credits in one language area at 100 level or 3 credits of International/Global Studies (See pages 104-105 for list)*

<b>ARA 101/102</b>	Elementary Modern Arabic I/ II	<b>JPN 101/102</b>	Beginning Japanese I and II
<b>ARA 115</b>	Elementary Modern Standard Arabic	<b>LAT 101/102</b>	Beginning Latin I and II
<b>CHN 101/102</b>	Beginning Chinese I and II	<b>LAT 115</b>	Intensive Beginning Latin
<b>FRN 101/102</b>	Beginning French I and II	<b>RUS 101/102</b>	Beginning Russian I and II
<b>FRN 115</b>	Intensive Beginning French	<b>SPN 101/102</b>	Beginning Spanish I and II
<b>GER 101/102</b>	Beginning German I and II	<b>SPN 113/114</b>	Beginning Spanish for the Medical Professionals I and II
<b>GER 115</b>	Intensive Beginning German	<b>SPN 115</b>	Intensive Beginning Spanish
<b>GRK 101/102</b>	Beginning Greek I and II		
<b>GRK 115</b>	Intensive Beginning Greek		
<b>HEB 101/102</b>	Intro to Classical Hebrew I/ II		
<b>ITA 101/102</b>	Beginning Italian I and II		



## ACCELERATED PROGRAMS IN COMMUNICATION STUDIES

**Specific Requirements for Admission to the Communication Studies Major/Certificate:**  
COM 152 and overall GPA of 2.25.

### **B. A., Major in Communication Studies: 36-39 Credits**

*The following Communication Studies courses are required for both tracks. In addition the student must choose one track.*

**(All of the following:)**

COM 202	Communication Theories	3 credits
COM 203	Introduction to Communication Research Methods	3 credits
COM 352	Advanced Presentational Forms	3 credits
COM 362	Small Group Communication	3 credits
COM 490	Communication and Community	3 credits
COM 496	Communication Internships	3 credits

### **Organizational Communication Track**

**(All of the following:)**

COM 320	Leadership: Theories, Styles, and Skills	3 credits
COM 360	Organizational Communication Theories	3 credits
COM 460	Advanced Organizational Communication	3 credits
COM 463	Organizational Assessment	3 credits
Six (6) Elective hours of Upper-Division COM courses		6 credits

### **Certificate Program in Organizational Communication (27 credits)**

*A Certificate of Organizational Communication will be awarded to the students who successfully complete a total of 27 semester hours from the following courses:*

COM 202	Communication Theories	3 credits
COM 203	Introduction to Communication Research Methods	3 credits
COM 352	Advanced Presentational Forms	3 credits
COM 360	Organizational Communication Theories	3 credits
COM 362	Small Group Communication	3 credits
COM 460	Advanced Organizational Communication	3 credits
COM 496	Communication Internships	3 credits

**(One of the following:)**

COM 463	Organizational Assessment	3 credits
COM 464	Organizational Training and Development	3 credits
Three additional hours of 300-level or above COM courses.		3 credits

## ACCELERATED PROGRAMS IN ENGLISH

**Specific Requirements for Admission to the English Major:** Completion of ENG 120, ENG 121, and ENG 150 with a grade of “C” or better. Students who wish to apply to the Creative Writing Specialization: Completion of ENG 300 with a grade of “B” or better or permission of the Director of Creative Writing.

### ***B. A., Major in English: 36 Credits***

**(All of the following:)**

ENG 201	Interpreting Texts	3 credits
ENG 202	Entering a Professional Dialogue	3 credits
ENG 499	Senior Project	3 credits
Literatures and Histories course ( <i>see pages 131 for list</i> )		3 credits
Cultures and Identities course ( <i>see pages 132 for list</i> )		3 credits
Writing and Languages course ( <i>see pages 132 for list</i> )		3 credits
Authors or Genres course ( <i>see pages 132 for list</i> )		3 credits

#### ***Specialization in Creative Writing***

**(All of the following:)**

ENG 300	Introduction to Creative Writing	3 credits
ENG 301	Creative Writing: Narrative Forms	3 credits
ENG 302	Creative Writing: Poetic Forms	3 credits
ENG 403	Seminar in Creative Writing	3 credits
Three additional credits from ENG courses numbered 300 or above		3 credits

### ***Certificate Program in Creative Writing (21 credits)***

A *Certificate in Creative Writing* will be awarded to the students who successfully complete a total of 21 semester hours from the following courses:

ENG 300	Introduction to Creative Writing	3 credits
ENG 301	Narrative Forms	3 credits
ENG 302	Poetic Forms	3 credits
ENG 403	Seminar in Creative Writing	6 credits

Two literature courses chosen in consultation with major advisor.

Students are strongly encouraged to take ENG 254 Writing About Literature as one of the required literature courses.

**Prerequisite:** Entry to the Certificate program requires evidence of prior achievement in creative writing in the form of a submitted manuscript (6-8 pages of poetry or 10-15 pages of fiction), to be judged by the Director of Creative Writing and/or a full-time member of the creative writing faculty.

## *DEGREE REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN DENTAL HYGIENE (B.S.D.H.)*

Creighton University School of Dentistry, through University College, offers a degree completion program in Dental Hygiene. This Bachelor of Science Degree in dental hygiene is designed to prepare the graduate to assume broader positions of responsibility in a variety of health care, research, business, community, and educational settings, and to adapt to new roles necessitated by the changing health care environment. It does so by offering a curriculum that encompasses the arts, humanities, basic and behavioral sciences, and advanced professional studies. Emphasis is placed on the basic principles of problem-solving and decision making, critical thinking, communication skills, and ethical behavior with a particular focus on life-long learning skills that can be applied to a multiplicity of roles and career settings.

The applicant for admission to this baccalaureate degree-completion program must show evidence of: (1) graduation with a minimum 2.5 GPA from an accredited dental hygiene program recognized by the American Dental Association (ADA) Commission on Dental Accreditation, (2) successful completion of the Dental Hygiene National Board Examination, (3) current licensure as a dental hygienist in any state in the United States or Canada, in good standing, and (4) satisfactory academic and professional references.

Candidates for the baccalaureate degree must complete a minimum of 128 credit hours: 64 dental hygiene transfer credits; 48 general study hours (English, Sociology, Theology, History, World Literature, Philosophy, Psychology, Anatomy and Physiology, Biochemistry, Microbiology, Speech, Ethics, etc.); and 18 dental science hours. A cumulative grade point average of 2.0 is required for graduation with a Bachelor of Science degree in dental hygiene from the School of Dentistry. This average shall be computed only on the basis of all courses attempted while enrolled in University College in the program leading to a Bachelor of Science degree in dental hygiene.

Students will have a maximum of four years from the time of enrollment at Creighton University to complete their bachelor's degree requirements.

Degree requirements are listed below. Areas marked with (\*) must be taken at Creighton.

<b>Areas of Study</b>	<b>Semester Hours</b>
Dental Hygiene	64 credits
Theology, Philosophy, Ethics* (Core A)	6 credits
Cultures, Ideas and Civilizations* (Core B)	9 credits
Natural Science (Core C)	16 credits
Social and Behavioral Sciences (Core D)	6 credits
Skills* (3 hrs. at Creighton) (Core E)	9 credits
Dental Science* (Core F)	<u>18 credits</u>
<b>Total semester hours</b>	<b>128 credits</b>

### ***Core A: Theology, Philosophy, Ethics – 6 hours***

PHL/THL 250	Foundations for Ethical Understanding	3 credits
<b>(One of the following:)</b>		
THL 100	Christianity in Context	3 credits
THL 201	Reading the Old Testament	3 credits
THL 202	Creation and Apocalypse	3 credits
THL 203	Biblical Ancestors and Heroes	3 credits
THL 205	Sickness, Disability, and Healing in the Bible	3 credits
THL 207	Reading the New Testament	3 credits
THL 208	New Testament Communities and Their Stories	3 credits
THL 209	The Synoptic Gospels: The Life of Jesus	3 credits
THL 210	Applying the Memory of Jesus	3 credits
THL 212	Paul and His Legacy	3 credits

**Core B: Cultures/Ideas/Civilizations – 9 hours**

PHL 107	Critical and Historical Introduction to Philosophy	3 credits
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**(One of the following:)**

HIS 101	The Modern Western World	3 credits
HIS 103	The Asian World	3 credits
HIS 104	The Latin American World	3 credits
HIS 106	The African World	3 credits
HIS 107	The Middle Eastern World	3 credits
HIS 108	The Native American World	3 credits

**(One of the following:)**

ENG 120	World Literature I	3 credits
ENG 121	World Literature II	3 credits

**Core C: Natural Sciences – 16 hours (Prerequisites for Iowa Western Community****College Associate's Degree in Dental Hygiene Program)**

BMS 111	Basic Human Anatomy	4 credits
BMS 303	Physiology	4 credits
BMS 301	Biochemistry	4 credits
MIC 141	Microbiology	4 credits

**Core D: Social and Behavioral Sciences – 6 hours****(One course from any two different subject areas)**

ANT 111	Human Variation	3 credits
ECO 203	Introductory Microeconomics	3 credits
PLS 101	Introduction to Politics	3 credits
PLS 105	Introduction to World Politics	3 credits
PLS 121	American Government and Politics	3 credits
PLS 215	Comparative Political Systems	3 credits
SOC 101	Self and Society	3 credits
SOC 223	Social Problems	3 credits
PSY 111	Introductory Psychology	3 credits

**Core E: Skills – 9 hours**

ENG 150	Rhetoric and Composition	3 credits
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**(Six credits from the following:)**

COM 152	Principles of Communication Competence	3 credits
MTH 135	College Algebra	3 credits
MTH 137	Trigonometry	3 credits
MTH 201	Applied Mathematics	3 credits
MTH 245	Calculus I	3 credits
PHA 444	Biostatistics and Research Design	3 credits

**Core F: Dental Science – 18 hours from the following:**

CPD 111	Interpersonal Relationships and Communication	2 credits
CPD 115	History of Dentistry	1 credit
CPD 132	Community Dentistry Field Experience	1 credit
CPD 431	Ethics in the Practice of Dentistry II	1 credit
CPD 433	Financial Planning and Jurisprudence	2 credits
GDS 115	Dental Materials Lecture	2 credits
GDS 116	Dental Materials Laboratory	2 credits
GDS 135	Dental Materials Lecture	4 credits
GDS 136	Dental Materials Laboratory	2 credits
GDS 211	Infectious Disease Control in Dentistry	1 credit
GDH 232	Oral Hygiene and Recall Clinic	1 credit
GDS 219	General Pathology	9 credits
GDS 235	Oral Pathology	8 credits
GDD 315	Dental Management of Medically Complex Patients	2 credits
ORB 113	Histology	8 credits
ORB 115	General Gross Anatomy	10 credits
ORB 131	Head and Neck Anatomy	9 credits
ORB 133	Oral Histology and Embryology	8 credits

ORB 137	Nutrition	2 credits
ORB 311	Dental Pharmacology I	5 credits
ORB 331	Dental Pharmacology II	3 credits
PDO 133	Introduction to Computing	1 credits
PER 213	Periodontology Lecture	2 credits
PER 233	Periodontology Lecture	2 credits
PER 313	Periodontology Lecture	2 credits
GDS, PER or CPD	Directed Studies	1-3 credits

**DEGREE REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN EMERGENCY  
MEDICAL SERVICES (BSEMS) (<http://ems.creighton.edu>)  
EMS Standard Curriculum - 128 Credits**

**EMS CORE Categories**

**Theology/Philosophy/Ethics (15 Sem. Hrs.)**

THL 100	Christianity in Context	3 credits
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**(One of the following:)**

THL 201	Reading the Old Testament	3 credits
THL 202	Creation and Apocalypse	3 credits
THL 203	Biblical Ancestors and Heroes	3 credits
THL 205	Sickness, Disability, and Healing in the Bible	3 credits
THL 207	Reading the New Testament	3 credits
THL 208	New Testament Communities and Their Stories	3 credits
THL 209	The Synoptic Gospels: The Life of Jesus	3 credits
THL 210	Applying the Memory of Jesus	3 credits
THL 212	Paul and His Legacy	3 credits

**(One of the following:)**

PHL 250	Philosophical Foundations for Ethical Understanding	3 credits
THL 250	Foundations for Ethical Understanding	3 credits

**(One of the following:)**

THL 324	Scripture and Theology: The Birth of Christian Doctrine	3 credits
THL 325	Catholicism: Creed and Question	3 credits
THL 326	Defending the Christian Faith	3 credits
THL 330	Jesus Christ and the Salvation of the World	3 credits
THL 331	Jesus Christ: Liberator	3 credits
THL 335	Jesus Christ: Yesterday and Today	3 credits
THL 338	Eucharist: Sacrament of Unity or Disunity	3 credits
THL 339	Theology of the Church and Sacraments	3 credits
THL 341	Ecclesiology in Context: The Church in El Salvador	3 credits
THL 344	Theology of Christian Marriage	3 credits
THL 345	Honors Theology of Christian Marriage	3 credits

**(One of the following:)**

HPE 311	Health Care Ethics	3 credits
THL 457	Biomedical Ethics	3 credits

**Culture/Ideas/Civilization (18 Sem. Hrs.)**

ENG 120	World Literature I	3 credits
ENG 121	World Literature II	3 credits
HIS 101	History of the Modern Western World	3 credits
PHL 107	Critical/Historical Intro. to Philosophy	3 credits
International and Global Studies Course	(see list on pages 104-105)	3 credits

**(One of the following:)**

HIS 103	The Asian World	3 credits
HIS 104	The Latin American World	3 credits
HIS 106	The African World	3 credits
HIS 107	The Middle Eastern World	3 credits
HIS 108	The Native American World	3 credits

**Natural Sciences (18 Sem. Hrs.)**

BIO 149	Human Biology	3 credits
BMS 111	Basic Human Anatomy	4 credits
BMS 303	Physiology	4 credits
CHM 111	Fundamentals of General Chemistry	3 credits
CHM 112/113	Fundamentals of Biological Chemistry and Lab	4 credits

**Social/Behavioral Sciences (6 Sem. Hrs.)**

PSY 111	Introductory Psychology	3 credits
<b>(Three credits from one of the following:)</b>		
	Anthropology/Economics/Political Science/Sociology	3 credits

**Skills (12 Sem. Hrs.)**

ENG 150	Rhetoric and Composition	3 credits
COM 152	Principles of Communication Competence	3 credits

**(One of the following:)**

	Fine and Performing Arts Course (ART, DAN, MUS, THR)	3 credits
	Foreign Language Course (ARA, FRN, GER, HEB, ITA, JPN, LAT, RUS, SPN)	3 credits

**(One of the following:)**

MTH 135	College Algebra	3 credits
MTH 201	Applied Mathematics	3 credits

**Electives (4 Sem. Hrs.)**

4 credits

**EMS Major (55 Sem. Hrs.)**

Prerequisite: EMS 101 Fundamentals of Emergency Medical Services – with grade of “C” or better or equivalent course and successful completion of entrance exam.

**(All of the following:)**

EMS 101	Fundamentals of Emergency Medical Services	4 credits
EMS 301	Preparatory	5 credits
EMS 403	Patient Assessment	3 credits
EMS 405	Airway Management/Ventilation	1 credit
EMS 407	Trauma Management	4 credits
EMS 410	Medical Emergencies I	2 credits
EMS 411	Special Considerations	3 credits
EMS 412	Medical Emergencies II	5 credits
EMS 413	Operations	2 credits
EMS 414	Medical Emergencies III	5 credits
EMS 415	Assessment Based Management	1 credit
EMS 416	Medical Emergencies IV	4 credits
EMS 420	Clinical Practicum I	1 credit
EMS 421	Field Practicum I	1 credit
EMS 422	Clinical Practicum II	2 credits
EMS 423	Field Practicum II	2 credits
EMS 424	Clinical Practicum III	2 credits
EMS 425	Field Practicum III	2 credits

**(Six credits from the following:)**

EMS 440	Educational Planning and Assessment	3 credits
EMS 470	Management of EMS	3 credits
EMS 480	Critical Care Paramedic	6 credits
EMS 493	Directed Independent Readings	1-3 credits
EMS 495	Directed Independent Study	1-3 credits
EMS 497	Directed Independent Research	1-3 credits

Students who have successfully completed the major courses are eligible for national registry or state certification as paramedics.

## **EMS - Pre-Accelerated Nursing Curriculum - 128 Credits**

### **EMS CORE Categories**

#### **Theology/Philosophy/Ethics (15 Sem. Hrs.)**

THL 100 Christianity in Context 3 credits

**(One of the following:)**

THL 201 Reading the Old Testament 3 credits

THL 202 Creation and Apocalypse 3 credits

THL 203 Biblical Ancestors and Heroes 3 credits

THL 205 Sickness, Disability, and Healing in the Bible 3 credits

THL 207 Reading the New Testament 3 credits

THL 208 New Testament Communities and Their Stories 3 credits

THL 209 The Synoptic Gospels: The Life of Jesus 3 credits

THL 210 Applying the Memory of Jesus 3 credits

THL 212 Paul and His Legacy 3 credits

**(One of the following:)**

PHL 250 Philosophical Foundations for Ethical Understanding 3 credits

THL 250 Foundations for Ethical Understanding 3 credits

**(One of the following:)**

THL 324 Scripture and Theology: The Birth of Christian Doctrine 3 credits

THL 325 Catholicism: Creed and Question 3 credits

THL 326 Defending the Christian Faith 3 credits

THL 330 Jesus Christ and the Salvation of the World 3 credits

THL 331 Jesus Christ: Liberator 3 credits

THL 335 Jesus Christ: Yesterday and Today 3 credits

THL 338 Eucharist: Sacrament of Unity or Disunity 3 credits

THL 339 Theology of the Church and Sacraments 3 credits

THL 341 Ecclesiology in Context: The Church in El Salvador 3 credits

THL 344 Theology of Christian Marriage 3 credits

THL 345 Honors Theology of Christian Marriage 3 credits

**(One of the following:)**

HPE 311 Health Care Ethics 3 credits

THL 457 Biomedical Ethics 3 credits

#### **Culture/Ideas/Civilization (18 Sem. Hrs.)**

ENG 120 World Literature I 3 credits

ENG 121 World Literature II 3 credits

HIS 101 History of the Modern Western World 3 credits

PHL 107 Critical/Historical Intro. to Philosophy 3 credits

International and Global Studies Course (see list on pages 104-105) 3 credits

**(One of the following:)**

HIS 103 The Asian World 3 credits

HIS 104 The Latin American World 3 credits

HIS 106 The African World 3 credits

HIS 107 The Middle Eastern World 3 credits

HIS 108 The Native American World 3 credits

#### **Natural Sciences (21 Sem. Hrs.)**

BMS 111 Basic Human Anatomy 4 credits

BMS 303 Physiology 4 credits

CHM 111 Fundamentals of General Chemistry 3 credits

CHM 112/113 Fundamentals of Biological Chemistry and Lab 4 credits

MIC 141 Microbiology 4 credits

NUR 223 Nutrition 2 credits

**Social/Behavioral Sciences (9 Sem. Hrs.)**

PSY 111	Introductory Psychology	3 credits
SOC 101	Self and Society	3 credits

**(One of the following:)**

NUR 228	Lifespan Development	3 credits
PSY 271	Developmental Psychology	3 credits

**Skills (9 Sem. Hrs.)**

ENG 150	Rhetoric and Composition	3 credits
COM 152	Principles of Communication Competence	3 credits
MTH 201	Applied Mathematics	3 credits

**Electives (4 Sem. Hrs.)**

4 credits

**EMS Major (52 Sem. Hrs.)**

Prerequisite: EMS 101 Fundamentals of Emergency Medical Services – with grade of “C” or better or equivalent course and successful completion of entrance exam.

**(All of the following:)**

EMS 101	Fundamentals of Emergency Medical Services	4 credits
EMS 301	Preparatory	5 credits
EMS 403	Patient Assessment	3 credits
EMS 405	Airway Management/Ventilation	1 credit
EMS 407	Trauma Management	4 credits
EMS 410	Medical Emergencies I	2 credits
EMS 411	Special Considerations	3 credits
EMS 412	Medical Emergencies II	5 credits
EMS 413	Operations	2 credits
EMS 414	Medical Emergencies III	5 credits
EMS 415	Assessment Based Management	1 credit
EMS 416	Medical Emergencies IV	4 credits
EMS 420	Clinical Practicum I	1 credit
EMS 421	Field Practicum I	1 credit
EMS 422	Clinical Practicum II	2 credits
EMS 423	Field Practicum II	2 credits
EMS 424	Clinical Practicum III	2 credits
EMS 425	Field Practicum III	2 credits

**(Three credits from the following:)**

EMS 440	Educational Planning and Assessment	3 credits
EMS 470	Management of EMS	3 credits
EMS 480	Critical Care Paramedic	6 credits
EMS 493	Directed Independent Readings	1-3 credits
EMS 495	Directed Independent Study	1-3 credits
EMS 497	Directed Independent Research	1-3 credits

Students who have successfully completed the major courses are eligible for national registry or state certification as paramedics.



## ***EMS-Pre-Medical Curriculum - 133 Credits***

### ***EMS CORE Categories***

#### **Theology/Philosophy/Ethics (15 Sem. Hrs.)**

THL 100 Christianity in Context 3 credits

**(One of the following:)**

THL 201 Reading the Old Testament 3 credits

THL 202 Creation and Apocalypse 3 credits

THL 203 Biblical Ancestors and Heroes 3 credits

THL 205 Sickness, Disability, and Healing in the Bible 3 credits

THL 207 Reading the New Testament 3 credits

THL 208 New Testament Communities and Their Stories 3 credits

THL 209 The Synoptic Gospels: The Life of Jesus 3 credits

THL 210 Applying the Memory of Jesus 3 credits

THL 212 Paul and His Legacy 3 credits

**(One of the following:)**

PHL 250 Philosophical Foundations for Ethical Understanding 3 credits

THL 250 Foundations for Ethical Understanding 3 credits

**(One of the following:)**

THL 324 Scripture and Theology: The Birth of Christian Doctrine 3 credits

THL 325 Catholicism: Creed and Question 3 credits

THL 326 Defending the Christian Faith 3 credits

THL 330 Jesus Christ and the Salvation of the World 3 credits

THL 331 Jesus Christ: Liberator 3 credits

THL 335 Jesus Christ: Yesterday and Today 3 credits

THL 338 Eucharist: Sacrament of Unity or Disunity 3 credits

THL 339 Theology of the Church and Sacraments 3 credits

THL 341 Ecclesiology in Context: The Church in El Salvador 3 credits

THL 344 Theology of Christian Marriage 3 credits

THL 345 Honors Theology of Christian Marriage 3 credits

**(One of the following:)**

HPE 311 Health Care Ethics 3 credits

THL 457 Biomedical Ethics 3 credits

#### **Culture/Ideas/Civilization (18 Sem. Hrs.)**

ENG 120 World Literature I 3 credits

ENG 121 World Literature II 3 credits

HIS 101 History of the Modern Western World 3 credits

PHL 107 Critical/Historical Intro. to Philosophy 3 credits

International and Global Studies Course (see list on pages 104-105) 3 credits

**(One of the following:)**

HIS 103 The Asian World 3 credits

HIS 104 The Latin American World 3 credits

HIS 106 The African World 3 credits

HIS 107 The Middle Eastern World 3 credits

HIS 108 The Native American World 3 credits

#### **Natural Sciences (32 Sem. Hrs.)**

BIO 211 General Biology: Molecular and Cellular 4 credits

BIO 212 General Biology: Organismal and Population 4 credits

CHM 203/204 General Chemistry I and Lab 4 credits

CHM 205/206 General Chemistry II and Lab 4 credits

CHM 321/322 Organic Chemistry I and Lab 4 credits

CHM 323/324 Organic Chemistry II and Lab 4 credits

PHY 211 General Physics I 4 credits

PHY 212 General Physics II 4 credits

**Social/Behavioral Sciences (6 Sem. Hrs.)****(Six credits from the following:)**

Anthropology/ Economics/ Political Science/ Psychology/ Sociology 6 credits

**Skills (13 Sem. Hrs.)**

ENG 150 Rhetoric and Composition 3 credits

MTH 245 Calculus I 4 credits

**(Six credits of the following:)**

Fine and Performing Arts Course (ART, DAN, MUS, THR) 3 credits

Foreign Language Course (ARA, CHN, FRN, GER, HEB, ITA, JPN, LAT, RUS, SPN) 3 credits

**EMS Major (49 Sem. Hrs.)**

Prerequisite: EMS 101 Fundamentals of Emergency Medical Services – with grade of “C” or better or equivalent course and successful completion of entrance exam.

**(All of the following:)**

EMS 101 Fundamentals of Emergency Medical Services 4 credits

EMS 301 Preparatory 5 credits

EMS 403 Patient Assessment 3 credits

EMS 405 Airway Management/Ventilation 1 credit

EMS 407 Trauma Management 4 credits

EMS 410 Medical Emergencies I 2 credits

EMS 411 Special Considerations 3 credits

EMS 412 Medical Emergencies II 5 credits

EMS 413 Operations 2 credits

EMS 414 Medical Emergencies III 5 credits

EMS 415 Assessment Based Management 1 credit

EMS 416 Medical Emergencies IV 4 credits

EMS 420 Clinical Practicum I 1 credit

EMS 421 Field Practicum I 1 credit

EMS 422 Clinical Practicum II 2 credits

EMS 423 Field Practicum II 2 credits

EMS 424 Clinical Practicum III 2 credits

EMS 425 Field Practicum III 2 credits

Students who have successfully completed the major courses are eligible for national registry or state certification as paramedics.

It is recommended that pre-med students take additional upper-division science electives including BIO 317 Genetics; CHM 318 Fundamentals or Biochemistry or BMS 301 Biochemistry. They should consult with a pre-med advisor to ensure timely and appropriate preparation for the MCAT.

***PARAMEDIC CERTIFICATE CONVERSION TO ACADEMIC CREDIT***

Creighton University recognizes that a number of vocational-technical training programs offer health care courses that are substantially equivalent to accredited academic degree program courses. As some practicing paramedics want to obtain an academic degree at later stages of their lives and careers, a transitional program has been developed by Creighton University EMS Education that recognizes a student’s prior education and clinical experience and offers transitional academic courses that are designed to complement prior technical courses with the rigorous academic coursework that is consistent with baccalaureate studies in the sciences.

***Eligibility Requirements***

1. A minimum of three continuous years of fulltime active experience as a practicing clinical paramedic with an active, moderately busy, or busy service, (i.e., a service with a minimum of 1,000 responses per year per paramedic fulltime unit staffing) immediately prior to application to the course.
2. National Registry Certification as a paramedic

3. No loss of licensure or certification for disciplinary or punitive reasons at any time; no inactive status of lapses in certifications for more than 6 months for any cause
4. Excellent scholastic record in primary paramedic course
5. Academic excellence in lower division credit courses (minimum 2.50 GPA, including algebra, biology, chemistry, English composition, and psychology)
6. Excellent letters of recommendation from two EMS supervisors one from an EMS medical director.

***Program Requirements:***

1. A comprehensive assessment of cognitive, psychomotor and affective skills conducted by written, oral and practical evaluation methods.
2. Completion of a clinical bridge course involving 3-9 credit hours to complement gaps in knowledge and skills that were identified in the comprehensive assessment.
3. Identical summative performance testing at the current paramedic class performance standards.
4. Successful completion of a transitional independent study bridge course of 3-9 credit hours that is designed to complement prior vocational-technical training with academic standards of performance.
5. Successful completion of 9 credit hours of 400-level academic EMS courses.

***Transferability***

Standard Creighton University policies on acceptance and transfer of academic credits from other accredited institutions will be applied.

***Tuition***

Charges for academic paramedic credits that are being converted in the transition program will be at 70% of the full tuition rate at the time of acceptance and enrollment in the program. Additional credits taken at Creighton University toward degree completion will be charged at the prevailing rate at the time the courses are taken.

***Required Courses***

EMS 450	Paramedic Certificate-to-Academic Transition	3-6 credits
EMS 455	Paramedic Clinical Transition	3-6 credits

***AWARDING OF DEGREES***

Most degrees are awarded by the college in which the program originates. Bachelor of Arts, Bachelor of Science, Associate in Arts and Associate in Science degrees are awarded by the College of Arts and Sciences; the Bachelor of Science in Business Administration is awarded by the College of Business Administration. The Associate in Science in Emergency Medical Services and the Bachelor of Science in Emergency Medical Services are awarded by the School of Pharmacy and Health Professions. The Bachelor of Science in Dental Hygiene is awarded by the School of Dentistry.

University College students complete the degree requirements established by the school awarding the degree. See pages 226-241 for the general and major requirements for a Bachelor of Science in Business Administration. General requirements for College of Arts and Sciences degrees can be found on pages 100-225. Specific Arts and Sciences major requirements are given under each department's listing in the Courses of Instruction section. General and major requirements for the Bachelor of Science in Emergency Medical Services and the Bachelor of Sciences in Dental Hygiene are above and on the preceding pages.

## ASSOCIATE DEGREES

Associate degrees are available to students enrolled in University College only. A candidate for an Associate in Arts or Associate in Science degree must have earned 64 semester hours of credit with a grade point average (GPA) of 2.00 or above for all courses attempted at Creighton University and 2.00 or above for all courses in the field of concentration. The ASEMS degree requires a total of 73 semester hours. Students who earn an associate degree may continue on for a bachelor's degree. All work completed in an associate degree program can be applied toward a bachelor's degree.

At least half (32) of the hours for the Associate in Science or Associate in Arts must be completed in residence at Creighton University. At least 15 semester hours in the major field must be completed at Creighton.

Associate in Arts degrees are offered in three major fields: Organizational Communication, Spirituality, and Theology. The Associate in Arts, major in Organizational Communication degree program is available in an accelerated format. The Associate in Science degree is offered with majors in Computer Science, Mathematics, and Emergency Medical Services. Associate Degree requirements follow.

### *Associate Degree Requirements*

#### **Core Curriculum for All Majors**

##### **Category A: Theology, Philosophy, and Ethics (9 credits)**

THL 100	Religious Inquiry	3 credits
THL 200-level	Scripture Course	3 credits

##### **(One of the following:)**

PHL 250	Phl. Foundations for Ethical Understanding	3 credits
THL 250	Thl. Foundations for Ethical Understanding	3 credits

##### **Category B: Cultures, Ideas, and Civilizations (9 credits)**

HIS 101	The Modern Western World	3 credits
PHL 107	Critical and Historical Intro. to Philosophy	3 credits

##### **(One of the following:)**

ENG 120	World Literature I	3 credits
ENG 121	World Literature II	3 credits

##### **Category C: Natural Sciences (4 credits)**

##### **(One approved course with laboratory from the following areas:)**

Atmospheric Sciences/Biology/Chemistry/ Environmental Sciences/Physics	4 credits
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##### **Category D: Social Sciences (3 credits)**

##### **(One approved course from the following areas:)**

Anthropology/Economics/Political Science/ Psychology/Sociology	3 credits
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##### **Category E: Skills (6-7 credits)**

##### **(Two courses from the following:)**

ENG 150	Rhetoric and Composition	3 credits
Classical or Modern Languages course	3 credits	
Studio/Performing Arts course	3 credits	

COM 152 Principles of Communication Competence **OR**

MTH 201 Applied Mathematics OR MTH 245 Calculus I (3-4 hrs.)

**Total Core Requirements (Applicable to all majors except EMS) 31-32 credits**

## ASSOCIATE IN ARTS DEGREES

### ***Spirituality Major (64 credits)***

Core Curriculum Requirements (See above)		31-32 credits
<i>Spirituality Major Requirements (25 credits)</i>		
One course in Old Testament		3 credits
One course in New Testament		3 credits
THL 250	Theology Foundations for Ethical Understanding	3 credits
THL 491	Seminar in Liturgy/Ministry/Spirituality/Theology	3 credits
THL 544	Christian Celebration	3 credits
THL 561	Finding God in Daily Life	3 credits
THL 575	Foundations of Christian Spirituality	3 credits
<b>(Two courses from the following:)</b>		
THL 325	Catholicism: Creed and Question	3 credits
THL 335	Jesus Christ: Yesterday and Today	3 credits
THL 339	Theology of the Church and Sacraments	3 credits
Electives		7-8 credits

### ***Theology Major (64 credits)***

Core Curriculum Requirements (See above)		31-32 credits
<i>Theology Major Requirements (25 credits)</i>		
One course in Old Testament		3 credits
One course in New Testament		3 credits
THL 250	Thl. Foundations for Ethical Understanding	3 credits
THL 491	Seminar in Liturgy/Ministry/Spirituality/Theology	3 credits
THL 544	Christian Celebration	3 credits
THL 561	Finding God in Daily Life	3 credits
<b>(Two courses from the following:)</b>		
THL 325	Catholicism: Creed and Question	3 credits
THL 335	Jesus Christ: Yesterday and Today	3 credits
THL 339	Theology of the Church and Sacraments	3 credits
Two 300-500 level course chosen in consultation with advisor		6 credits
Electives		7-8 credits

### ***Organizational Communication Major (64 credits)***

Core Curriculum Requirements		31-32 credits
<i>Major Requirements (33)</i>		
COM 202	Communication Theories	3 credits
COM 203	Introduction to Communication Research Methods	3 credits
COM 320	Leadership: Theories, Styles and Skills	3 credits
COM 352	Advanced Presentational Forms	3 credits
COM 360	Organizational Communication Theories	3 credits
COM 362	Small Group Communication	3 credits
COM 460	Advanced Organizational Communication	3 credits
COM 496	Communication Internship	3 credits
<b>(One of the following:)</b>		
COM 463	Organizational Assessment	3 credits
COM 464	Organizational Training and Development	3 credits
Six hours upper-division COM courses		6 credits

## ASSOCIATE IN SCIENCE DEGREES

### **Computer Science Major (64 credits)**

Core Curriculum Requirements		31-32 credits
<i>Major Requirements (18 credits)</i>		
CSC 221	Computer Programming I	3 credits
CSC 222	Computer Programming II	3 credits
CSC 309	Discrete Structures	3 credits
CSC 414	Introduction to Computer Organization	3 credits
CSC 427	Data Structures and Algorithm Analysis	3 credits
MTH 245	Calculus I	4 credits
Three semester hours in 400-level or above CSC courses		3 credits
Electives		10-11 credits

### **Mathematics Major (64 credits)**

Core Curriculum Requirements		31-32 credits
<i>Major Requirements (24 credits)</i>		
MTH 245	Calculus I	4 credits
MTH 246	Calculus II	4 credits
MTH 347	Calculus III	4 credits
MTH 529	Linear Algebra	3 credits
MTH 545	Differential Equations	3 credits
MTH 581	Modern Algebra I	3 credits
MTH 591	Analysis I	3 credits
Electives		8-9 credits

## ASSOCIATE IN SCIENCE IN EMERGENCY MEDICAL SERVICES (A.S., E.M.S.)

### **Emergency Medical Services Major (73 credits)**

<i>Core requirements (24 credits)</i>		
Category A: Theology, Philosophy, and Ethics		6 credits
Category B: Culture, Ideas, and Civilizations		6 credits
Category D: Social/Behavioral Sciences		3 credits
Category E: Skills		9 credits
<i>Major Requirements (49 credits)</i>		
EMS 101, 301, 403, 405, 407, 410, 411, 412, 413, 414, 415, 416, 420, 421, 422, 423, 424, 425		49 credits

(Call the University College Dean's Office, 280-2424 or 1-800-637-4279, to request a brochure listing suggested courses for the ASEMS degree.)

## CERTIFICATE PROGRAMS

Persons who may not initially want to follow a bachelor's degree program may enroll in one of the 19 certificate programs offered by University College (<http://adultdegrees.creighton.edu>). Those without prior college work may elect to complete a certificate program first and have the option of continuing with the complete degree program. Others who have previously completed a Bachelor's degree may want to enroll in a certificate program for personal enrichment or in order to show a concentration in another area of study.

Courses required in most of the certificate programs are equivalent to major requirements in the degree programs. (The Certificate in Business Administration includes the introductory courses in Accounting, Business, Economics, Finance, Management, Marketing, and Management Information Systems. These are most of the foundation courses necessary for admission to the typical MBA program). The certificate programs are:

Applied Computer Science	Irish Literature and Culture
Atmospheric Sciences	Liturgy
Business Administration	Mathematics
Computer Science	Ministry
Corporate Communication	Organizational Communication
Creative Writing	Pre-Health Sciences
Environmental Science	Psychology
Health Administration and Policy	Spirituality
Human Resources Administration	Theology
Interpersonal Communication	

To be eligible for a certificate, students must complete all required courses with grades of "C" or better. Courses completed with grades below "C" must be repeated. Unless otherwise stated, at least half of the course work must be completed at Creighton.

Students who complete courses required for a certificate may also use these courses to meet degree requirements.

Individuals who want to follow a certificate program should complete the Application for Admission available in the Dean's Office or at <http://adultdegrees.creighton.edu>.

### ***Certificate Program in Applied Computer Science (24 credits)***

A *Certificate in Applied Computer Science* will be awarded to students who complete the following requirements, a total of 24 semester hours:

CSC 221	Computer Programming I	3 credits
CSC 222	Computer Programming II	3 credits
CSC 444	Human Computer Interaction	3 credits
CSC 452	Windows Programming	3 credits
CSC 538	Network LAN and NOS	3 credits
CSC 542	Relational Database Design	3 credits
CSC 548	Object Oriented Programming	3 credits
CSC 551	Web Programming	3 credits

### ***Certificate Program in Atmospheric Sciences (38 credits)***

Atmospheric Sciences 113 is a prerequisite for most upper division courses in Atmospheric Sciences.

Advanced placement is available to students who qualify, particularly for those with meteorological training with the aviation industry, the National Weather Service, or branches of the military. For information contact the Environmental and Atmospheric Sciences Chair.

A *Certificate of Atmospheric Sciences* will be awarded to students who complete the following courses:

ATS 113	Introduction to Atmospheric Sciences	3 credits
ATS 553	Tropical Meteorology	3 credits
ATS 555	Meteorological Remote Sensing	3 credits
ATS 561	Synoptic Meteorology	4 credits
ATS 562	Synoptic Meteorology II	3 credits
ATS 571	Dynamic Meteorology I	3 credits
ATS 572	Dynamic Meteorology II	3 credits
MTH 245	Calculus I	4 credits
MTH 246	Calculus II	4 credits
PHY 211	General Physics I and Lab	4 credits
PHY 212	General Physics II and Lab	4 credits

### ***Certificate Program in Business Administration (31 credits)***

A student enrolled outside the College of Business Administration who does not plan to earn a bachelor's or master's degree from the College of Business Administration, may earn a Certificate of Business Administration.

A certificate in Business Administration prepares a non-business student for graduate work in a Master of Business Administration Program. The certificate courses are the majority of the foundation courses, which along with a bachelor's degree in any discipline, are required for a student seeking admission to the M.B.A. and M.S.-I.T.M. programs.

A *Certificate of Business Administration* will be awarded to students who successfully complete the following requirements, a total of 31 semester hours:\*

ACC 201	Introduction to Financial Accounting	3 credits
ACC 202	Introduction to Managerial Accounting	3 credits
BUS 201	Legal Environment of Business	3 credits
BUS 229	Statistical Analysis	4 credits
ECO 203	Introductory Microeconomics	3 credits
ECO 205	Introductory Macroeconomics	3 credits
FIN 301	Managerial Finance	3 credits
MGT 301	Managerial Process and Org. Behavior	3 credits
MIS 253	Management Information Systems	3 credits
MKT 319	Principles of Marketing	3 credits

**\*Please Note:** The 31 required certificate hours is the maximum number of credits in which a non-business administration student may enroll in the College of Business Administration.

While no specific mathematics courses are required for the certificate, successful completion of BUS 229 will necessitate mathematical proficiency equivalent to MTH 201 (Applied Mathematics) and either MTH 141 (Applied Calculus) or MTH 245 (Calculus I).

Of the 31 required hours, at most 12 hours of transfer credits can be applied toward the Business Certificate. Once a student has matriculated to Creighton, only 6 of the 12 transfer hours allowed may be taken as transient study. In addition, the student must attain a cumulative GPA of 2.0 or better in all business administration courses.

Degree seeking students who have completed the requirements of the certificate will be awarded the Certificate of Business Administration at the time of graduation. Non-degree seeking students will be awarded the certificate upon completion of the requirements of the certificate.



### ***Certificate Program in Computer Science (24 credits)***

A *Certificate in Computer Science* will be awarded to students who complete the following:

CSC 221	Computer Programming I (Required)	3 credits
CSC 222	Computer Programming II (Required)	3 credits
CSC 309	Discrete Structures	3 credits
CSC 414	Introduction to Computer Organization	3 credits
CSC 427	Data Structure and Algorithm Analysis	3 credits

Three additional 400-level-or-above computer science courses are required.

**NOTE:** It is recommended that students who wish to pursue a B.S. degree in Computer Science should take the following courses: CSC 221, 222, 309, 414, 427, 539, and 542.

### ***Certificate Program in Corporate Communication (27 credits)***

A *Certificate of Corporate Communication* will be awarded to the students who successfully complete a total of 27 semester hours from the following courses:

#### **Required for Admission: 2.25 GPA and COM 152**

COM 202	Communication Theories	3 credits
COM 203	Introduction to Communication Research Methods	3 credits
COM 321	Persuasion	3 credits
COM 352	Advanced Presentational Forms	3 credits
COM 362	Small Group Communication	3 credits
COM 496	Communication Internship	3 credits
JMC 323	Principles of Public Relations	3 credits

#### **(One of the following electronic communications courses):**

JMC 325	Digital Video Photography	3 credits
JMC 379	Print Design	3 credits
JMC 381	Computer Illustration	3 credits
JMC 382	Web Design	3 credits
JMC 423	Interactive Multimedia Design	3 credits

Three additional hours of 300-level or above COM courses. 3 credits

### ***Certificate Program in Creative Writing (21 credits)***

A *Certificate in Creative Writing* will be awarded to the students who successfully complete a total of 21 semester hours from the following courses:

ENG 300	Introduction to Creative Writing	3 credits
ENG 301	Narrative Forms	3 credits
ENG 302	Poetic Forms	3 credits
ENG 403	Seminar in Creative Writing	6 credits

Two literature courses chosen in consultation with major advisor.

Students are strongly encouraged to take ENG 254 Writing About Literature as one of the required literature courses.

**Prerequisite:** Entry to the Certificate program requires evidence of prior achievement in creative writing in the form of a submitted manuscript (6-8 pages of poetry or 10-15 pages of fiction), to be judged by the Director of Creative Writing and/or a full-time member of the creative writing faculty.

### ***Certificate Program in Environmental Science (60 credits)***

A *Certificate in Environmental Science* will be awarded to students who complete the following requirements, a total of 60 semester hours:

EVS 113	Introduction to Atmospheric Sciences	3 credits
EVS 114	Introduction to Atmospheric Sciences Lab	1 credit
BIO 211, 212	General Biology I and II	8 credits
CHM 203/204	General Chemistry I with lab	4 credits
CHM 205/206	General Chemistry II with lab	4 credits
EVS 390	Environmental Science	3 credits
EVS 491	Senior Seminar	2 credits
EVS 533	Inadvertent Climate Modification	3 credits
EVS 555	Meteorological Remote Sensing	<u>3 credits</u>
<b>Total Core Hours</b>		<b>31 credits</b>

### **Area of Specialization Requirements**

Students take a minimum of 14 credit hours from one of the following tracks:

#### *I—Global-Environmental Systems*

EVS 341	General Botany	4 credits
EVS 435	Field Biology in the Southeastern United States	4 credits
EVS 440	Field Biology of the Desert Southwest	4 credits
EVS 443	Environmental Geology	4 credits
EVS 460	Terrestrial Remote Sensing	4 credits
EVS 481	Terrestrial Ecology	4 credits
EVS 485	Marine and Freshwater Ecology	3 credits
EVS 486	Freshwater Ecology Laboratory	1 credit
EVS 487	Marine Ecology Laboratory	2 credits
EVS 541	Atmospheric Diffusion, Air Pollution, and Environmental Impact Analysis	3 credits
EVS 544	Hydrology	3 credits
EVS 553	Tropical Meteorology	3 credits
EVS 556	Introduction to Physical Oceanography	3 credits

#### *II—Environmental Pollution*

CHM 315	Quantitative Analysis	4 credits
CHM 321/322	Organic Chemistry I and Lab	4 credits
CHM 323/324	Organic Chemistry II and Lab	4 credits
CHM 456	Instrumental Analysis	3 credits
CHM 466	Instrumental Analysis Laboratory	2 credits
CHM 506	Environmental Chemistry and Natural Resources	3 credits
EVS 443	Environmental Geology	4 credits
EVS 523	Environmental Toxicology	3 credits
EVS 541	Atmospheric Diffusion, Air Pollution, and Environmental Impact Analysis	3 credits
EVS 544	Hydrology	3 credits
EVS 552	Boundary Layer Meteorology	3 credits
EVS 556	Introduction to Physical Oceanography	3 credits

**Requisite Courses:** MTH 245, PHY 211 and PHY 212.

*III—Organismal and Population Ecology*

EVS 335	Zoology	4 credits
EVS 341	General Botany	4 credits
EVS 351	Microbiology	4 credits
EVS 435	Field Biology in the Southeastern United States	4 credits
EVS 440	Field Biology of the Desert Southwest	4 credits
EVS 443	Environmental Geology	4 credits
EVS 449	Animal Physiology	3 credits
EVS 450	Animal Physiology Lab	1 credit
EVS 460	Terrestrial Remote Sensing	4 credits
EVS 481	Terrestrial Ecology	4 credits
EVS 483	Vertebrate Natural History Lecture	3 credits
EVS 484	Vertebrate Natural History Laboratory	1 credit
EVS 485	Marine and Freshwater Ecology	3 credits
EVS 486	Freshwater Ecology Laboratory	1 credit
EVS 487	Marine Ecology Laboratory	2 credits
EVS 512	Microbial Ecology	3 credits
EVS 549	Environmental Physiology	3 credits
EVS 561	Entomology	4 credits
EVS 571	Animal Behavior	3 credits
EVS 572	Animal Behavior Laboratory	2 credits
EVS 581	Evolution	4 credits

*IV—Environmental Policy and Society (14 credits with at least one course from Group B)*

**Group A:**

EVS 307	Demography: World Population Issues	3 credits
EVS 333+	Environmental Politics and Policy	3 credits
EVS 354	Environmental Ethics	3 credits
EVS 355	Environment and Society	3 credits

**Group B:**

EVS 443	Environmental Geology	4 credits
EVS 523	Environmental Toxicology	3 credits
EVS 541	Atmospheric Diffusion	3 credits
CHM 456	Instrumental Analysis	3 credits
CHM 466	Instrumental Analysis Laboratory	2 credits

**Total Area of Specialization Hours 15 credits**

**\*Special Courses:** (These courses are available to all students in the EVS Program as additional electives. They do not substitute for any course requirements for the major).

EVS 480	Environmental Science Internship	1-3 credits
EVS 493	Directed Independent Readings	1-3 credits
EVS 495	Directed Independent Study	1-3 credits
EVS 497	Directed Independent Research	1-3 credits

**NOTE:** Transfer hours are accepted; however, a minimum of thirty (30) semester hours of the certificate program must be completed at Creighton University.

For more information, call University College, (402) 280-2424 or 1-800-637-4279.

### ***Certificate Program in Health Administration and Policy (24 credits)***

A *Certificate of Health Administration and Policy* will be awarded to the students who successfully complete a total of 24 semester hours from the following courses:

#### **Required Courses (12 hours)**

HAP 200	Introduction to Health Administration	3 credits
HAP 215	Sociology of Health Care	3 credits
HAP 334	Public Policy of Health Care	3 credits
HAP 390	Health Communication	3 credits

#### **Management Focus (3 hours)**

##### **(One of the following:)**

MGT 301	Managerial Process and Organizational Behavior	3 credits
COM 314	Managerial Communication	3 credits
PLS 331	Managing Public and Non-Profit Sectors	3 credits

#### **Finance or Law Focus (3 or 6 hours)**

##### **(One of the following:)**

HAP 310	Health Finance and Budgeting*	3 credits
HAP 515	Law and Health Systems	3 credits

HAP Electives (6 hours)

##### **(One of the following:)**

Six hours from other courses that count toward the HAP major \*\*

Six hours tools sequence\*\*\*

\* ACC 201 recommended as prereq.

\*\* At least one of which must be at the 400-level.

\*\*\* Consists of ECO 203 Microeconomics and BUS 229 or SOC 214 (Statistics).

### ***Certificate Program in Human Resources Administration (27 credits)***

A *Certificate of Human Resources Administration* will be awarded to the students who successfully complete a total of 27 semester hours from the following courses:

#### **Required for Admission: 2.25 GPA and COM 152**

COM 202	Communication Theories	3 credits
COM 203	Introduction to Communication Research Methods	3 credits
COM 352	Advanced Presentational Forms	3 credits
COM 362	Small Group Communication	3 credits
COM 370	Human Resource Administration	3 credits
COM 463	Organizational Assessment	3 credits
COM 464	Organizational Training and Development	3 credits
COM 496	Communication Internships	3 credits
Three additional hours of 300-level or above COM courses.		3 credits

### ***Certificate Program in Interpersonal Communication (27 credits)***

A *Certificate of Interpersonal Communication* will be awarded to the students who successfully complete a total of 27 semester hours from the following courses:

#### **Required for Admission: 2.25 GPA and COM 152**

COM 202	Communication Theories	3 credits
COM 203	Introduction to Communication Research Methods	3 credits
COM 321	Persuasion	3 credits
COM 352	Advanced Presentational Forms	3 credits
COM 361	Interpersonal Communication	3 credits
COM 362	Small Group Communication	3 credits
COM 461	Advanced Interpersonal Communication	3 credits
COM 496	Communication Internship	3 credits
Three additional hours of 300-level or above COM courses.		3 credits

### ***Certificate Program in Irish Literature and Culture (36 credits)***

A Certificate of Irish Literature and Culture will be awarded to students who complete the following requirements, a total of 36 semester hours beyond CORE courses. Students complete the following:

#### **English Core Courses:**

ENG 150	Rhetoric and Composition	3 credits
Six semester hours of basic literature requirement		6 credits
<b>(All of the following:)</b>		
ENG 254	Writing About Literature	3 credits
ENG 330	Introduction to Irish Literature	3 credits
ENG 340	English Literature I: Medieval/Early Renaissance	3 credits
ENG 341	English Literature II: Late Renaissance/Neo-Classical	3 credits
ENG 342	English Literature III: Romantic/Victorian	3 credits
ENG 409	Shakespeare	3 credits
ENG 421	History of the English Language	3 credits
ENG 432	The Irish Renaissance	3 credits
ENG 433	Contemporary Irish Literature	3 credits

Students complete three additional Irish literature courses, including one Irish Period or Genre course, one Irish Author course, and one Senior Seminar chosen in consultation with the major advisor.

### ***Certificate Program in Liturgy (25 credits)***

This certificate program in Liturgy is a program open to persons of all denominations who desire a curriculum with a solid theological base and practical application in liturgy. A *Certificate in Liturgy* will be awarded to participants who successfully complete the following requirements:

#### **(All of the following:)**

One class in New Testament	THL 207, 208, 209, 210 or 212	3 credits
One class in Old Testament	THL 201, 202, 203 or 204	3 credits
THL 250	Theological Foundations for Ethical Understanding	3 credits
THL 338	The Eucharist: Sacrament of Unity or Disunity	3 credits
THL 339	Theology of Church and Sacraments	3 credits
THL 491	Seminar in Liturgy/Ministry/Spirituality/Theology	1 credit
THL 544	Christian Celebration: The Liturgical Year	3 credits
THL 561	Finding God in Daily Life: Prayer and Discernment	3 credits

#### **(One of the following:)**

THL 325	Catholicism: Creed and Question	3 credits
THL 335	Jesus Christ: Yesterday and Today	3 credits

### ***Certificate Program in Mathematics (30 credits)***

A *Certificate in Mathematics* will be awarded to students who successfully complete the following requirements, (30 semester hours).

MTH 245	Calculus I	4 credits
MTH 246	Calculus II	4 credits
MTH 347	Calculus III	4 credits

*Eighteen semester hours selected as follows:*

(Six semester hours from the following courses:)

MTH 529	Linear Algebra	3 credits
MTH 581	Modern Algebra I	3 credits
MTH 582	Modern Algebra II	3 credits

(Six semester hours from the following courses:)

MTH 545	Differential Equations	3 credits
MTH 571	Linear Programming	3 credits
MTH 591	Analysis I	3 credits
MTH 592	Analysis II	3 credits

(Six semester hours from the following courses:)

MTH 561	Mathematical Statistics I	3 credits
MTH 562	Mathematical Statistics II	3 credits
MTH 563	Mathematical Statistics III	3 credits

### ***Certificate Program in Ministry (25 credits)***

This certificate program in Ministry is a program open to persons of all denominations who desire a curriculum with a solid theological base and practical application in church ministry. A *Certificate in Ministry* will be awarded to participants who successfully complete the following requirements (25 semester hours):

#### **Required Courses:**

One class in New Testament	(THL 207, 208, 209, 210 or 212)	3 credits
One class in Old Testament	(THL 201, 202, 203 or 204)	3 credits
THL 250	Theological Foundations for Ethical Understanding	3 credits
THL 392	Practicum in Ministry	3 credits
THL 491	Seminar in Liturgy/Ministry/Spirituality/Theology	1 credit
THL 560	Theology of Ministry	3 credits
THL 561	Finding God in Daily Life: Prayer and Discernment	3 credits

#### **(Two of the following:)**

THL 325	Catholicism: Creed and Question	3 credits
THL 335	Jesus Christ: Yesterday and Today	3 credits
THL 339	Theology of Church and Sacraments	3 credits

### ***Certificate Program in Organizational Communication (27 credits)***

A *Certificate of Organizational Communication* will be awarded to the students who successfully complete a total of 27 semester hours from the following courses:

#### **Required for Admission: 2.25 GPA and COM 152**

COM 202	Communication Theories	3 credits
COM 203	Introduction to Communication Research Methods	3 credits
COM 352	Advanced Presentational Forms	3 credits
COM 360	Organizational Communication Theories	3 credits
COM 362	Small Group Communication	3 credits
COM 460	Advanced Organizational Communication	3 credits
COM 496	Communication Internships	3 credits

#### **(One of the following:)**

COM 463	Organizational Assessment	3 credits
COM 464	Organizational Training and Development	3 credits

Three additional hours of 300-level or above COM courses.

### ***Certificate Program in Pre-Health Sciences (24 credits)***

A *Certificate in Pre-Health Sciences* will be awarded to students who successfully complete a minimum of 24 hours chosen from the following courses\*

BIO 211	General Biology: Molecular and Cellular	4 credits
BIO 212	General Biology: Organismal and Population	4 credits
CHM 203, 204	General Chemistry I and Lab	4 credits
CHM 205, 206	General Chemistry II and Lab	4 credits
CHM 321, 322	Organic Chemistry I and Lab	4 credits
CHM 323, 324	Organic Chemistry II and Lab	4 credits
PHY 211	General Physics I and Lab	4 credits
PHY 212	General Physics II and Lab	4 credits
MTH 245	Calculus I	4 credits

Plus electives chosen from other courses recommended by the pre-health sciences advisory committee.

\*A minimum of 18 hours must be completed at Creighton.

### ***Certificate Program in Psychology (34 credits)***

A Certificate of Psychology will be awarded to students who successfully complete the following requirements: all courses in Group A, at least one course each from of Groups B-E, one additional course from Groups B-E, and three additional PSY courses, a total of 34 hours.\*

#### *Group A*

PSY 111	Introductory Psychology (or PSY 112)	3 credits
PSY 313	Research Methods and Statistics I	3 credits
PSY 315	Research Methods and Statistics II	3 credits
PSY 316	Research Methods and Statistics II Lab	1 credit

#### *Group B*

PSY 423	Tests and Measurements	3 credits
PSY 424	History and Systems of Psychology	3 credits
PSY 366	Undergraduate Internship in Psychology	3-4 credits
PSY 474	Undergrad. Internship in Industrial/ Org. Psychology	3-4 credits
PSY 478	Multicultural Issues in Psychology	3 credits

#### *Group C*

PSY 431	Cognitive Psychology	3 credits
PSY 434	Learning: Basic Processes	3 credits
PSY 436	Sensation and Perception	3 credits
PSY 437	Physiological Psychology	3 credits

#### *Group D*

	Adolescent and Adult Development	3 credits
PSY 343	Psychology of Personality	3 credits
PSY 344	Social Psychology	3 credits

#### **(One of the following:)**

PSY 341	Infant and Child Development	3 credits
PSY 342	Adolescent and Adult Development	3 credits

#### *Group E*

PSY 351	Abnormal Psychology	3 credits
PSY 352	Health Psychology	3 credits
PSY 353	Industrial Psychology	3 credits

\*Prerequisite: PSY 111 is prerequisite to all psychology courses unless otherwise indicated.

### ***Certificate Program in Spirituality (25 credits)***

This certificate program in Spirituality is a program open to persons of all denominations who desire a curriculum with a solid theological base and practical application.

A *Certificate in Spirituality* will be awarded to participants who successfully complete the following requirements (25 semester hours):

#### **(All of the following:)**

One class in New Testament	(THL 207, 208, 209, 210 or 212)	3 credits
One class in Old Testament	(THL 201, 202, 203 or 204)	3 credits
THL 250	Theological Foundations for Ethical Understanding	3 credits
THL 491	Seminar in Liturgy/Ministry/Spirituality/Theology	1 credit
THL 561	Finding God in Daily Life: Prayer and Discernment	3 credits
THL 544	Christian Celebration: The Liturgical Year	3 credits
THL 575	Foundations of Christian Spirituality	3 credits

#### **(Two of the following:)**

THL 325	Catholicism: Creed and Question	3 credits
THL 335	Jesus Christ: Yesterday and Today	3 credits
THL 339	Theology of Church and Sacraments	3 credits

### ***Certificate Program in Theology (25 credits)***

This certificate program in Theology is a program open to persons of all denominations who desire a curriculum with a solid theological base.

A *Certificate in Theology* will be awarded to participants who successfully complete the following requirements (25 semester hours):

**(All of the following:)**

One class in New Testament	(THL 207, 208, 209, 210 or 212)	3 credits
One class in Old Testament	(THL 201, 202, 203 or 204)	3 credits
THL 250	Theological Foundations for Ethical Understanding	3 credits
THL 491	Seminar in Liturgy/Ministry/Spirituality/Theology	1 credits
THL 561	Finding God in Daily Life: Prayer and Discernment	3 credits

**(Two of the following:)**

THL 325	Catholicism: Creed and Question	3 credits
THL 335	Jesus Christ: Yesterday and Today	3 credits
THL 339	Theology of Church and Sacraments	3 credits

Two 300-500 level electives chosen in consultation with advisor.

### ***OTHER PROGRAMS OF STUDY***

Many of the courses required for the following programs may be completed at night:

#### ***Pre-Health Sciences Program***

Certificate in Pre-Health Sciences. See page 277.

Pre-Dental and Pre-Medical Programs. See page 221.

Pre-Pharmacy Program. See page 222.

Pre-Occupational Therapy Program. See page 222.

Pre-Physical Therapy Program. See page 224.

#### ***Teacher Certification***

Consult with an advisor in the Department of Education, Room 106 in the Communication Arts Building, for information on certification/endorsement requirements. Telephone (402) 280-2820.

### ***INDEPENDENT STUDY PROGRAM***

Director—Dean Braden

All students are eligible to register for correspondence courses in Creighton's Independent Study Program (<http://www.creighton.edu/isp>). The Independent Study Program offers students the opportunity for access to undergraduate core courses developed by Creighton faculty members. Communication is the key to receiving the personalized instruction that is ordinarily given in the traditional college classroom. The Independent Study Program maintains the same high degree of instructional quality that is maintained in on-campus courses at Creighton.

The minimum course completion time is 12 weeks, and the maximum is six months from the date of enrollment. Tuition is \$750 per course, except for NUR 223 (2 credits), which is \$500. Textbook and supplementary course material costs are in addition to tuition. Independent Study Program catalogs are available in the University College Office, B-11, College of Business Administration, (402) 280-1253 or 1-800-637-4279. Students may register for an Independent Study Program course any time during the year.

#### ***AVAILABLE COURSES\****

**ANT 111 Human Variation** (3) (CORE D)

Coursewriter: Suzanne Baker, Ph.D.

**ENG 120 World Literature I** (3) (CORE B)

Coursewriter: Fidel Fajardo-Acosta, Ph.D.

**ENG 121 World Literature II** (3) (CORE B)

Coursewriter: Thomas Kuhlman, Ph.D.



- ENG 150 Rhetoric and Composition (3) (CORE E)**  
Coursewriter: Robert Whipple, Ph.D.
- HIS 101 The Modern Western World (3) (CORE B)**  
Coursewriter: Elizabeth Elliot-Meisel, Ph.D.
- HIS 107 The Middle Eastern World (3) (CORE B)**  
**P: HIS 101 or HIS 105.** Coursewriter: John C.M. Calvert, Ph.D.
- NUR 223 Nutrition (2)**  
Coursewriter: Mary Watson, M.S., R.D.
- PHL 107 Critical and Historical Introduction to Philosophy (3) (CORE B)**  
Coursewriter: Eugene E. Selk, Ph.D.
- PHL 320 God and Persons: Philosophical Reflections (3) (CORE A)**  
Coursewriter: Eugene E. Selk, Ph.D.
- PSY 111 Introductory Psychology (3) (CORE D)**  
Coursewriter: Debra L. Schwieso, Ed.S.
- PSY 341 Infant and Child Development (3)**  
Coursewriter: Debra L. Schwieso, Ed.S.
- PSY 375 Marriage and Family Relationships (3)**  
Coursewriter: Debra L. Schwieso, Ed.S.
- THL 100 Christianity in Context (3) (CORE A)**  
Coursewriter and Instructor: Sr. Joan L. Mueller, Ph.D.
- THL 209 Life of Jesus (3) (CORE A)**  
Coursewriter: Bruce J. Malina, Ph.D.
- THL 335 Jesus Christ: Yesterday and Today (3) (CORE A)**  
**P: 200-level Scripture course; Jr. stdg.** Coursewriter/Instructor: Sr. Joan L. Mueller, Ph.D.

\* For course descriptions please consult the Courses of Instruction section beginning on page 279.

## ***NONCREDIT OFFERINGS***

The Center for Professional Development, a division of University College, provides a variety of non-credit certificate training programs for the Omaha area. Most programs are held at the Creighton West Omaha campus, 11111 Mill Valley Road. Further information available by calling 1-800-637-4279 or at <http://cpd.creighton.edu>

**Certificate in Supervision** – a non-credit certificate program designed for newly appointed supervisors. Supervision is designed to introduce the most current and successful leadership practices and information. Each session focuses on the unique challenges supervisors face on a daily basis and offers ideas to help participants achieve their goal of being a successful supervisor.

**Human Resource Generalist** – a non-credit program that has been distinctively created to provide a working knowledge of the theories, requirements, and practices currently being used in the exciting field of human resources. This professional program provides an in-depth study of specific topics and practices critical to enhance participant skills and to keep participants current in the rapidly changing human resource field.

**LSAT Test Preparation Program** - offered four times a year. This comprehensive program provides 28 hours of instructor-led training and review. Each section of the LSAT (essay writing, reading comprehension, logical reasoning, and analytical reasoning) is covered in depth.

**ACT Test Preparation Program** - offered twice a year. Junior and senior high school students eager to attend competitive colleges and universities will want to do their best on the ACT exam. A 16-hour instructor-led program by content area: science, math, reading comprehension and English are covered. A "best strategies" program on the college search and application process is also included as part of the program.

**Institute of Reading Development** - a partnership with this California-based company and CPD provides reading improvement courses in Omaha and Lincoln for pre-schoolers through adults. Learning to read, phonetics, reading comprehension and speed-reading are taught at age-appropriate reading levels each summer.

## ***DEVELOPED PROGRAMS CONCERNING MINISTRY***

### ***Noncredit Ministry Programs***

**Leadership in Family Ministry Training Program (LFM)**— This noncredit training program was co-developed in 1982 with the Family Life Office of the Archdiocese of Omaha. It is designed to develop, educate, train and sustain lay and religious leaders so that they may better share responsibility of ministry to families. Contact the Family Life Office, Archdiocese of Omaha (402) 551-9003 or University College (402) 280-2424 for more information.

### ***Credit Ministry Programs***

**Certificate/Diploma Program in Liturgy, Ministry, Spirituality, or Theology**, in Omaha and Nebraska. These 25-credit programs which may also be taken for audit, were co-developed in 1985 with the following Offices of the Archdiocese of Omaha: Family Life, Pastoral Development, Religious Education, Religious Consultation Center, and Catholic Charities. They are open to persons of all denominations who desire a curriculum with a solid theological base and practical application in ministry.

**Certificate/Diploma Program in Ministry or Theology**, in Des Moines, Iowa. These 25-credit programs, which may also be taken for audit, were co-developed in 1986 with the St. Joseph Education Center. They are taught in Des Moines by theology professors from Creighton University and resource theologians from the Des Moines diocese.

**Certificate/Diploma Program in Youth Ministry in Omaha, Nebraska**, affiliated with the Youth Ministry Certificate of the Office of Religious Formation, Archdiocese of Omaha, in 1988 and the Center for Ministry Development in Connecticut. The Youth Ministry Certificate can be taken for graduate or undergraduate credit. The courses are presented especially for persons working with youth and young adults. Either the Office of Religious Formation (554-8493) or University College (280-2424) can be contacted for further information.

## ***TUITION FOR FALL AND SPRING EVENING CLASSES***

Part-time University College students are assessed a special tuition rate that is two-thirds of the regular rate for the academic year for up to six hours of night classes per semester.

Tuition for undergraduate classes that are not under the sponsorship of University College (i.e., day classes), or for more than six and less than 12 hours of classes, is assessed at the regular per credit-hour rate. Students who enroll in 12-18 hours of classes are assessed full-time tuition.

## ***SPECIAL TUITION RATES FOR TEACHERS, SCHOOL ADMINISTRATORS, PERSONS IN MINISTRY, PARENTS, AND HIGH SCHOOL STUDENTS***

### ***Special Tuition Rate for Teachers and School Administrators***

Teachers and school administrators who are employed full time in public or private elementary or secondary schools and enroll as part-time students at Creighton may receive a tuition discount of 50 percent for three semester hours of course work each semester (fall and- or spring) and unlimited hours in summer. This discount may not be taken in addition to the regular University College discount. Students must complete an "Application for Teacher Improvement Remission" form verifying full-time employment status each term. These forms are available in the Business Office (280-2707) or University College (280-2424).

### ***Special Tuition for Post-Baccalaureate Elementary Education Majors***

Persons who hold a bachelors degree with at least a 2.50 GPA who are interested in becoming elementary teachers, are eligible for a 50 percent tuition discount for all major requirements. This discount may not be taken in addition to the regular University College discount. Students must

be accepted into the major as well as accepted as certificate-seeking students to the University. Contact University College for an information packet (800-637-4279 or 402-280-2424 or the Education Department at Creighton University for more information about major requirements 402-280-2820).

### ***Special Tuition Rate for Persons in Ministry***

Persons who work on a consistent basis in certain ministries may receive a tuition discount of 50 percent off the regular rate for up to nine semester hours of Theology courses each semester. This discount may not be taken in addition to the regular University College discount. An application for remission must be completed each semester. Contact University College for information on specific criteria. Contact the Graduate School, (402) 280-2870, for information on the special rates for graduate courses.

### ***Special Tuition Rate for Parents of Creighton Undergraduate Students***

Parents of full-time Creighton University students in the College of Arts & Sciences, College of Business Administration, and School of Nursing are eligible to take one day or evening undergraduate course on a space-available basis each semester for \$150 plus fees. Books and supplies are extra. Contact University College at (402) 280-2424 or 800-637-4279 or <http://www.creighton.edu/Parents/UCParentProgram.html> for more information.

### ***Special Tuition Rate for High School Students (Next Step Program)***

Academically eligible high school juniors and seniors may take a Creighton University undergraduate course at the special rate of \$75 per credit hour. There is an additional cost for the University fee and textbooks. Students must submit a letter of recommendation from a high school guidance counselor, or teacher in the academic area in which they want to study. More information can be obtained by calling (402) 280-2424 or 800-637-4279 or <http://www.creighton.edu/nextstep>.

### ***Full-Time, Part-Time Status***

Undergraduate students are considered part time when registered for 11 or fewer semester hours. Students registering for 12 or more credit hours in a semester are full-time students and are subject to regular full-time tuition and fee rates. Full- or part-time status is determined by the total semester hours of credit assigned to the courses for which a student registers in a given term, including courses being audited, but excluding Independent Study Program courses.

## ***FINANCIAL AID***

University College students who have been accepted into degree or certificate programs and register for six or more semester hours each semester may be eligible for Federal grant and loan programs. Financial Aid information can be found on pages 51-80 of this Bulletin.

### ***Veteran's Benefits***

Courses for college credit in all schools and colleges of the University are approved for veterans' education and training for degree-seeking students. Veterans' service is provided by the Registrar's Office. Veterans and others eligible for educational benefits administered by the Veterans Administration are given assistance to assure proper and advantageous use of their benefits and to simplify and expedite transactions with the government. A student who intends to apply for veterans' benefits must also apply for admission to University College as a degree-seeking student and have official transcripts sent to University College from all prior colleges or universities attended. (Application for Admission forms are available in the Dean's Office). Questions regarding veterans benefits should be directed to (402) 280-2701.

### ***Vocational Rehabilitation***

Vocational rehabilitation provides handicapped and disabled persons financial assistance to attend college to improve their skills and assist them in obtaining employment. In most states, vocational rehabilitation clients must first apply for Federal assistance prior to receiving assistance through vocational rehabilitation. In Nebraska, contact the state office in Lincoln, 301 Centennial Mall South, Lincoln, NE 68509. (402) 471-2961.

### ***Employee Benefits***

Many employers offer tuition assistance plans for employees who are enrolled in credit courses. Persons who are employed should contact their personnel offices to determine if such plans are available.

### ***Tuition Deferment Loan Program***

Creighton Federal Credit Union offers the Tuition Deferment Loan Program to University College students who are eligible for their employer's tuition reimbursement program. A tuition deferment loan allows a student to borrow the amount of tuition and postpone repayment of the loan until three weeks after the last day of class. Loan applications are available in the University College office, or by calling the Credit Union at (402) 341-2121. Applications can also be made via the credit union's web site at [www.creightonfederal.org](http://www.creightonfederal.org).

## ***OTHER AWARDS AND SCHOLARSHIPS***

### ***Dean's Merit Awards***

Realizing that many academically strong, working adults with the desire to attend University College—even those with some partial assistance from other sources—may find the tuition cost-prohibitive, the college provides Dean's Merit Awards. In addition to financial need, other considerations for these awards are the applicant's (1) academic potential, (2) work-related experience, and (3) desire to develop new career skills. Awards vary in value from \$100 to \$700 per term. Dean's Merit Awards are renewable. Other requirements are that applicants be enrolled in a degree or certificate program and complete the special application by May 1 for the summer sessions, August 1 for the fall semester and by December 1 for the spring semester.

### ***Richard Pearlman Memorial Scholarship***

This award is given to students enrolled in the Emergency Medical Services education program who demonstrate a passion for emergency medical services work and who have financial need. Special consideration will be given to students who have overcome socio-economic hardships to pursue their education. Maintaining at least a 2.00 cumulative grade point average is required for renewal consideration.

### ***Other Scholarships***

In addition to the grants, loans and scholarships listed here, there are several scholarships funded by various organizations and other private and University endowed scholarships. A financial aid brochure which lists these and other sources is available in the University College Office.

# PREPARING FOR GRADUATE STUDY

Many Creighton students continue their education on the graduate level. Students considering graduate study at the master's or doctoral levels should consider the following points. (Also see *Pre-Professional Study*).

Graduate programs often require foreign language proficiency; the traditional requirement is one language at the master's level and two at the doctoral level. The choice of particular language should relate to the research interests of the student's graduate program. Graduate departments in some fields allow students to substitute statistics and computer programming for foreign language skills.

Graduate study requires that students master the tools and techniques of research in a field. Graduate admissions committees look for evidence that applicants have demonstrated creativity and skill in independent study.

Admissions and financial aid decisions are usually based on three main pieces of information: the student's undergraduate record, particularly in the major field of interest; scores on standardized examinations (the Graduate Record Examination or Graduate Management Admissions Test); and recommendations from the student's faculty members.

Advice about graduate study in particular fields and the choice of an appropriate graduate school should be obtained from a student's major advisor.

## *UNDERGRADUATE PREPARATION FOR M.B.A. PROGRAMS* *Foundation Courses for Graduate Study in Business*

Graduate programs leading to the degree of Master of Business Administration (M.B.A.) are designed to give a broad overview of the executive world of business. An undergraduate degree in business is not a prerequisite to an M.B.A. program; in fact, many M.B.A. students hold degrees in the arts and sciences and technical fields.

Although a degree in business is not a prerequisite for admittance, a minimum number of foundation courses in business are necessary. Successful completion of the courses listed below introduces a student to the fundamentals of the functional areas of business: accounting, economics, finance, marketing, and statistics. The following courses or their equivalents are required for students seeking admission into M.B.A. programs:

ACC 201	Introduction to Financial Accounting	3 credits
BUS 229	Statistical Analysis (requires Calculus)	3 credits
FIN 301	Managerial Finance	3 credits
MKT 319	Principles of Marketing	3 credits
ECO 203	Introductory Microeconomics	3 credits
ECO 205	Introductory Macroeconomics	3 credits

The M.B.A. foundation courses provide an excellent background in business administration for students in Arts and Sciences without compromising the liberal arts content of a curriculum. (Also see *Certificate in Business for Arts and Sciences students*.)

Questions concerning the M.B.A. program at Creighton should be directed to the Coordinator, Graduate Business Programs, College of Business Administration, Creighton University, Omaha, NE 68178. Telephone: (402) 280-2829.

# COURSES OF INSTRUCTION

## INTRODUCTION

The courses of instruction are listed here by department (subject) or program in alphabetical order. Hence the offerings of the College of Arts and Sciences, the College of Business Administration, and the School of Nursing are intermingled. Courses offered by the College of Business Administration are listed under Accounting, Business, Economics, Finance, Management, Management Information Systems, and Marketing. Courses offered by the Division of Health Professions are listed in the School of Pharmacy and Health Professions Bulletin. With the exception of Nursing courses and a few courses indicated as being offered by the School of Medicine, all other courses listed in this issue of the *Bulletin* are offered by the College of Arts and Sciences.

Three-letter symbols are used to designate the different departments (subjects) or programs, for example, ACC for Accounting, CHM for Chemistry, ENG for English, etc. These symbols are used to identify the subject area of course offerings in schedules, grade reports, transcripts of records, etc.

The courses listed in this *Bulletin* are a statement of the plans of the various departments covering the period from the 2007 Summer Semester to the Second Semester of 2008. Also included, as a matter of record, are courses that were given during the period covered by the last issue of the *Bulletin* for the College of Arts and Sciences, College of Business Administration, and School of Nursing but did not appear in that issue. A special bulletin for the courses offered in the Summer Session is published early each year. The University reserves the right to modify or to cancel any of the courses listed.

## COURSE NUMBERING SYSTEM

Courses appearing in this Bulletin are numbered according to the following system:

001 - 099	Pre-college level courses (not applicable to a degree).
100 - 299	Lower-division courses (when applicable, 100-199 freshmen; 200-299 sophomores) undergraduate credit only. 300-499 Upper-division courses (when applicable, 300-399 junior; 400-499 senior) undergraduate credit only.
500 - 599	Advanced upper-division courses in which graduate students may enroll and receive graduate credit. (It is assumed that graduate students will perform more requirements and be graded more strictly than undergraduates in these courses.)
600 - 799	Graduate courses. (master's and doctoral level.)
800 - 899	Graduate courses. (Limited to doctoral candidates.)
900 - 999	Post-doctoral (or post-terminal) degree courses only.

The credit value of each course is included with its description. Unless indicated otherwise, the class meetings per week normally equal the number of semester hours of credit shown for the course. For example, for a three-semester-hour course there are three 50-minute class periods or their equivalent held each week of the semester. During summer sessions, class periods are held five days a week and the class periods are lengthened; hence, an equivalent amount of class time is devoted to a course whenever it is given.

## KEY TO SYMBOLS

The standard course description includes a variety of symbols or abbreviations indicating essential information. The following is a sample course description with the individual symbols explained in the order in which they appear in that description.

<b>BIO 523</b>	<b>Environmental Toxicology (3) II 2006-07</b> Principles of environmental tolerance, bioenergetics and nutrition, homeostasis, and toxicology and disease will be developed and related to the organismal and population levels and to comparative responses to environmental disturbance. The course uses a reading/discussion format. 3R. <b>P: BIO 211 and 212.</b>
BIO	Department (subject or discipline) abbreviation. Standard three-letter symbols are used throughout the University to identify the subject fields.
523	Course number. If a course has been renumbered, the old course number appears in parentheses following the new number.
Environmental Toxicology — Course Title	
(3)	Credit value of the course in terms of number of semester hours of credit.
II	Term offered. I indicates fall semester; II indicates spring semester; S indicates summer session.
W	indicates winter interterm; M indicates mini-semester.
2006-07	Year in which course offered. If no year designation is given, course is offered each year during the term(s) indicated, unless the symbol OD (on demand) appears indicating that the course is offered only when there is sufficient demand.
AY	Alternate year, indicating that the course will be offered every other year after the term and year shown.
S (OD)	Indicates the course is also offered in the summer session on demand. No symbol infers the course is offered on demand.
ENY, ONY	Indicate that course is offered in term shown of even-numbered years (ENY) or odd-numbered years (ONY).
3R, 3L	Class structure. R, L, S, C, D, Q indicate recitation lecture, laboratory, studio, conference, discussion, quiz. Hence, 3R, 3L indicates three hours of lecture-recitation and three hours of laboratory per week. For courses consisting of lecture-recitation periods only, the number of class hours per week, unless indicated otherwise, is the same as the credit value of the course and is not specified in the course description.
P	Prerequisite: the preliminary requirement that must be met before the course can be taken. When prerequisites are set forth in the introductory departmental statements preceding the course listings, they apply as indicated even though not repeated with the individual course descriptions.
CO	Corequisite: a requirement, usually another course, that must be completed in the same term.
DC, IC	DC, department consent, and IC, instructor consent, signify that a student must have the permission of the department or instructor in addition to or in lieu of other course prerequisites.

**NOTE:** Not all of the foregoing information may be noted in any individual course.

# ACCOUNTING

*Professors Krogstad and Raval; Associate Professors Flinn, Lewis (Chair), Purcell, Shimerda, and Taylor; Adjunct Instructor Mizaur.*

*Requirements for Accounting as the Field of Concentration – see page 233.*

- ACC 201 Introduction to Financial Accounting (3) I, II, S**  
The course includes a thorough discussion of the fundamental principles of financial accounting with an emphasis on the corporate form of a business entity. These principles are studied in connection with financial accounting systems, and are taught with the use of assigned problems and questions. Information technology and various other means are used for problem solving and to study the applications of the basic principles as they relate to financial statement preparation and understanding. **P: Open to all students who have completed a minimum of 15 semester hours of college credit.**
- ACC 202 Introduction to Managerial Accounting (3) I, II, S**  
The course includes a thorough discussion of the fundamental principles of managerial accounting with an emphasis on traditional and modern cost measurement, recording, and reporting systems to support managerial decision making. Specific managerial accounting topics covered include cost and revenue classification approaches; planning and control techniques, including operational budgeting; cost behavior analysis; cost-volume-profit analysis; and product costing, including activity-based costing. Also included in the course is coverage of the statement of cash flows, financial statement analysis, and individual and corporate income taxes. Information technology and various other means are used for managerial problem solving. **P: ACC 201; So. stdg.**
- ACC 301 Fundamentals of Income Taxation (3) OD**  
This course provides an overview of the federal income tax system. It includes an analysis of the individual and corporate tax systems including recognition of tax issues, tax return preparation, and basic tax planning. Coverage includes general concepts of gross income, deductions and credits, property transactions, capital cost recovery provisions, tax impact of choice of business entity with particular emphasis on small businesses and methods of tax accounting. **This course is not open to accounting majors. P: Jr. stdg.**
- ACC 313 External Financial Reporting Issues (3) I, S**  
The course involves an intermediate study of contemporary accounting theory and practice. Emphasis is placed on understanding the four financial statements presented in an audited set of financial reports, including an in-depth examination of earnings per share and the statement of cash flows. Financial accounting standards and practices related to cash, receivables, and inventory are examined in detail. The functions, nature, and limitations of accounting as expressed in professional literature are analyzed. Skills for assessing and solving problems in unstructured business settings are introduced in the course. **P: ACC 202 with a grade of C or better; Jr. stdg.**
- ACC 315 Managerial Accounting for Decision Making (3) I, II**  
The course includes a study of cost and managerial accounting issues, including costing systems, cost-volume-profit analysis, operational budgeting, and cost allocation. The course highlights the importance and significance of cost data for management decision making. Current topics and cost accounting techniques used in industry and the private business sector are presented. **P: ACC 202.**
- ACC 319 Financial Accounting and Reporting Standards (3) II, OD**  
The course involves an in-depth study of the theory and concepts of accounting with the emphasis placed on corporations. Financial accounting standards and practices related to fixed assets, current liabilities, investments in securities, stockholders' equity, and leases are examined in detail. Financial accounting standards and practices for governmental entities are also studied in depth. The interpretation and application of relevant professional literature, including accounting pronouncements, to specific business situations are stressed. The means of analyzing and interpreting accounting data, including financial reports, is also presented in the course. **P: ACC 313; Jr. stdg.**



- ACC 343 Principles of Taxation (3) II**  
This is an introductory course in federal income taxation. The emphasis is placed on technical rules, underlying theory, and applications, with primary coverage of the concepts of income, deductions, tax entities, and property transactions. Greater emphasis is placed on income taxes for individuals than for corporate entities. A tax planning approach is integrated throughout the course, and tax research methodology is introduced. **P: ACC 313.**
- ACC 366 Internships in Accounting (3) I, II, S**  
The course is designed to provide students with practical accounting experience by applying accounting concepts and technical skills learned in the classroom. It requires 150 hours with an employer, designated class meetings, written assignments, and oral presentations. The College of Business Administration solicits internships from local and national employers and agencies. Students must submit a current resume and application one semester prior to participation in the course. Placement will be based on a) an interview with the sponsoring employer, b) relevance of the internship to the students' accounting course work, and c) approval of the faculty coordinator. The course is pass/fail and may be taken only once. Enrollment is limited. **P: Second semester Jr. or higher stdg.**
- ACC 377 Accounting Information Systems (3) I, OD**  
An introduction to the design and use of computer-based information systems in accounting. Topics addressed include computer-based accounting systems, systems development, accounting cycles, and internal controls in and auditing of computer-based systems. **P: ACC 202, MIS 253; Jr. stdg.**
- ACC 423 Auditing (3) I**  
This course provides an introduction to the auditing profession, an overview of the auditing process, and an orientation to the tasks and procedures involved in an audit. Emphasis is placed on analytical thinking, the exercise of judgment, the evaluation of risks and controls, and how to add value to clients. Ethical issues and the expanding role of assurance services are considered. **P: ACC 313, 315; Sr. stdg.**
- ACC 491 The Financial and Accounting World: A Campus and Travel Course (1-3) I**  
A course designed to provide students with on-site understanding of accounting and financial processes to complement campus-based study of the same topics. The course includes up to 20 hours of on-campus study prior to the travel portion of the course that will comprise of up to 30 hours of study with experts in the field. The travel portion of the course may involve various destinations. **P: Sr. stdg; six hours of upper-level accounting courses.**
- ACC 493 Directed Independent Readings (1-3) OD**  
This is a directed readings course that investigates current developments in accounting theory and/or practice. The course permits individual students to pursue areas of interest within the field of accounting in greater depth than is covered in the normal curriculum. It also permits a student to do independent research on a specialized topic not ordinarily treated in regular course offerings. **P: Sr. stdg; DC and Dean's approval.**
- ACC 497 Directed Independent Research (1-3) OD**  
Supervised independent research on topics beyond the regular course coverage. Course is limited to students who have a GPA or 3.0 or better. **P: Sr. stdg; DC and Dean's approval.**
- ACC 516 Special Managerial Accounting Issues (3) OD**  
The course covers advanced managerial accounting topics, such as capital budgeting, management control systems, and activity-based costing and activity-based management. It deals with the need to adapt traditional management accounting methods as changes take place in the new business environment. The sources of change include the continued movement away from manufacturing and into the service industry, the globalization of business, information technology, and the need for more nonfinancial measures of evaluation. **P: ACC 315; Jr. stdg.**
- ACC 521 Advanced Accounting (3) II**  
The course involves the study and application of financial reporting concepts to specialized accounting problems and cases, including accounting for business combinations, consolidated financial statements, nonprofit entities, and entities operating in the international environment. The course also includes the in-depth study of specific corporate financial accounting standards and practices related to accounting for income taxes, long-term li-

abilities, dilutive securities, long-term investment in bonds, and accounting changes. The means of analyzing and interpreting accounting data is also emphasized in the course. **P: ACC 315, 319; Sr. stdg.**

**ACC 538 International Accounting (3) II**

An overview of accounting issues faced by multi-national firms. The course will focus on the challenges accountants and managers face when organizations produce, market or provide services in foreign cultures. **P: ACC 202; BUS 356.**

**ACC 544 Advanced Taxation (3) I**

An advanced consideration of federal taxation concepts relating to corporations, partnerships, estates and trusts, as well as consideration of wealth transfer taxes. Emphasis is on recognition of fact patterns producing taxable events and on planning to minimize taxes. **P: ACC 343; Jr. stdg.**

**ACC 579 Seminar in Accounting (3) II, OD**

Exploration and analysis of selected problems and issues in the accounting area of today's environment. Course content changes from semester to semester. This course is repeatable as long as topic differs (12 credits). **P: ACC 201, 202; Sr. stdg. or Department Chair Approval.**

500-series courses are open to both undergraduate and graduate students; however, additional graduate level work products (papers, case presentations, planning projects, etc.) are required of graduate students in these courses. Graduate-level courses (600-700 series courses open only to graduate students) that are offered by the Department of Accounting are listed in the Graduate School issue of the Creighton University Bulletin under the heading Master of Business Administration.

## ***AFRICAN STUDIES***

*For the African Studies Program of Study, please refer to page 113.*

**AFS 106 The African World (3) I, II (Same as BKS 106, HIS 106)**

A survey of developments in Africa from the 15th century to the present emphasizing the decline and reemergence of African independence, the creation of the African diaspora, and developments in the post-colonial period. **P: HIS 101.**

**AFS 307 Demography: World Population Issues (3) I (Same as ANT 307, EVS 307, SOC 307)**

This course will provide a sociological examination of the development and evolution of different models of population dynamics from several contemporary cultures. It will place particular emphasis on the assumptions and logical consequences of each of these models. Includes a survey of historical and contemporary trends in population growth, as well as a review of competing perspectives about natural limits to that growth. **P: So. stdg.**

**AFS 311 Politics of Africa (3) AY (Same as BKS 311, PLS 311)**

Introduction to politics of sub-Saharan Africa. Covers traditional African cultures, societies and politics; independence movements; and post-colonial politics. Discusses political parties, military interventionism, ethnic conflict, development policy and democratic reform. **P: So. stdg.**

**AFS 317 Global Health Issues (3) II, ONY (Same as ANT 317, HAP 317, SOC 317)**

This course will examine the social production of health and disease from a global perspective. Related to these issues, is the topic of health and well being in developing countries. **P: So. stdg.**

**AFS 341 American Cultural Minorities (3) I (Same as AMS 341, ANT 341, BKS 341, SOC 341)**

Determinants and consequences of prejudice and discrimination; race, ethnocentrism, religious conflict, class structure. Consideration also given to proposed strategies for reducing inter-group tension. **P: So. stdg.**

**AFS 342 Peoples and Cultures of Sub-Saharan Africa (3) ONY (Same as ANT 342, BKS 342)**

An exploration of the people and places of Africa south of the Sahara from a variety of anthropological perspectives. It is an introduction to the cultures of Africa and a history of how those cultures have been perceived and interpreted. **P: So. stdg.**

- AFS 347 Peoples and Cultures of Africa and the Middle East** (3) OD (Same as ANT 347, BKS 347)  
A study of the cultures of North Africa and the Middle East. Includes an analysis of the culture history, environmental, social and ideological adaptations, and explores the cultural changes of these predominantly Islamic cultures. **P: So. stdg.**
- AFS 356 Christianity in Africa** (3) OD (Same as BKS 356, THL 356)  
Introduction to religion among Africans and Africans in the diaspora. African religious concepts of time, creation, the place of humans in creation, initiation rites, marriage, procreation, death. The relationship between the ecclesial and non-ecclesial dimensions; development of the Black sacred cosmos, ritual, music, folk tradition and performance practice.
- AFS 388 Origins of Modern Africa** (3) AY (Same as BKS 388, HIS 388)  
Examination of the European impact on Africans and their institutions. **P: So. stdg.**
- AFS 390 Introduction to African Literature** (3) (Same as BKS 390, ENG 390)  
Contemporary African literature. Relationship between African literature and society, emergence of national and cross-African literatures, issues of cultural conflict, language and oral tradition, and other topics.
- AFS 398 Literature of Francophone Africa** (3) II (Same as BKS 398, ENG 398)  
Sample of representative Francophone African literature. Nature and functions of this literature, relation between it and society. Impact of non-Western cultural context on Western literary genres.
- AFS 400 Seminar in African Studies** (3) OD  
Seminars offered on special topics related to African Studies. May be repeated under different subtitles.
- AFS 405 Ethnicity, Nationalism and Democracy** (3) AY (Same as PLS 405)  
Course explores historical and contemporary patterns of democratization and ethnic conflict. Emphasis is on contemporary case studies and theories. **P: So. stdg.**
- AFS 470 Seminar in Film Studies: African and African American** (3) (Same as BKS 470, ENG 470, COM 470)  
Topical seminar with topics changing in different semesters. Examination of particular areas of film and popular culture. Topics in different semesters might include detailed examination of a film genre (e.g., the western, science fiction, detective films), or film and culture studies (e.g., women and film; film and developing nations). May be repeated for credit to a limit of six hours.
- AFS 484 Nationalist Movements in Colonial Africa** (3) II (Same as BKS 484, HIS 484)  
Case studies of the development and course of selected nationalist movements in European-ruled Africa. **P: So. stdg.**
- AFS 485 Society and Belief Systems in Africa** (3) II (Same as BKS 485, HIS 485)  
Examination of the social institutions of black Africa; the roles and meaning of the "tribe", ethnicity and the family. **P: So. stdg.**
- AFS 487 History of West Africa** (3) OD (Same as BKS 487, HIS 487)  
History of Africa south of the Sahara and west of the Cameroons Highlands, African cultural traditions, contact with Islam and the West, the State building, the European invasions, the colonial period, and reemergent states. **P: So. stdg.**
- AFS 489 Southern Africa: The Politics of Race** (3) OD (Same as BKS 489, HIS 489)  
Examination of the historical development of the social and political structures of modern Southern Africa. Primary focus on South Africa, Rhodesia-Zimbabwe, and Namibia. Analysis of the place of "race" in national policies. Includes apartheid, black nationalism, decolonization, guided democracy, and the interrelationship between economic developments and the social and political systems. **P: So. stdg.**
- AFS 493 Directed Independent Readings** (3) OD  
Individualized program of reading in an area of special interest under the direction of a faculty member. **P: AFS coordinator consent.**
- AFS 495 Directed Independent Research** (3) OD  
Individualized program of reading in an area of special interest under the direction of a faculty member. **P: AFS coordinator consent**

## *AIR FORCE ROTC*

### *AEROSPACE STUDIES*

Air Force Reserve Officers Training Corps (AFROTC) training leading to a commission as a second lieutenant in the United States Air Force is available to qualified Creighton students (male or female) through the AFROTC Program at the University of Nebraska at Omaha (UNO). Creighton students register for the courses at Creighton but attend Aerospace Studies Classes at UNO while pursuing their degree at Creighton. This opportunity results from an agreement between Creighton and UNO that permits Creighton students to participate in the AFROTC Program at the University of Nebraska at Omaha. Creighton students interested in the program should contact the AFROTC Detachment 470, Room 260, Arts and Science (ASH) Building, telephone 402-554-2318, at the University of Nebraska at Omaha to obtain further information.

Following are the Aerospace Studies courses of the four-year program:

#### **AES 001 Leadership Laboratory (0) I, II**

The AS 100 and AS 200 Leadership Laboratory courses (LLABs) include a study of Air Force customs and courtesies, drill and ceremonies, and military commands. The LLAB also includes studying the environment of an Air Force officer and learning about areas of opportunity available to commissioned officers. The AS 300 and AS 400 LLABs consist of activities classified as leadership and management experiences. They involve the planning and controlling of military activities of the cadet corps, and the preparation and presentation of briefings and other oral and written communications. LLABs also include interviews, guidance, and information that will increase the understanding, motivation, and performance of other cadets.

#### **AES 131-132 The Foundations of the United States Air Force, I and II (1)**

Survey courses designed to introduce students to the United States Air Force and Air Force Reserve Officer Training Corps. Featured topics include: mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, and an introduction to communication skills. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.

#### **AES 231-232 The Evolution of USAF Air and Space Power, I and II (1)**

The courses are designed to examine general aspects of air and space power through a historical perspective. Utilizing this perspective, the course covers a time period from the first balloons and dirigibles to the space-age global positioning systems of the Persian Gulf War. Historical examples are provided to extrapolate the development of Air Force capabilities (competencies), and missions (functions) to demonstrate the evolution of what has become today's USAF air and space power. Furthermore, the course examines several fundamental truths associated with war in the third dimension: e.g., Principles of War and Tenets of Air and Space Power. As a whole, this course provides the students with a knowledge level understanding for the general element and employment of air and space power, from an institutional doctrinal and historical perspective. In addition, the students will continue to discuss the importance of the Air Force Core Values with the use of operational examples and historical Air Force leaders and will continue to develop their communication skills. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experience.

#### **AES 311-312 Air Force Leadership Studies, I and II (3)**

A study of leadership, management fundamentals, professional knowledge, Air Force personnel and evaluation systems, leadership ethics, and communication skills required of an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. A mandatory Leadership Laboratory complements this course by providing advanced leadership experiences in officer-type activities, giving students the opportunity to apply the leadership and management principles of this course.

#### **AES 411-412 National Security Affairs/Preparation for Active Duty, I and II (3)**

These courses examine the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest focus on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Within this structure, continued emphasis is given to refining communication skills. A mandatory Leadership Laboratory complements this course by providing advanced leadership experiences, giving students the opportunity to apply the leadership and management principles of this course.

## AMERICAN STUDIES

*For the American Studies Program of Study, please refer to page 113.*

- AMS 101 An Introduction to the United States (3) I**  
An introduction to American cultures, society, politics, and economics for foreign students. **P: AMS Coordinator's approval.**
- AMS 121 American Government and Politics (3) I, II, S (Same as PLS 121)**  
A critical overview of American political institutions and processes, showing how these are shaped by and shape public opinion, the constitution, interest groups, elections, and the media. Required of all majors.
- AMS 300 Introduction to American Studies (3) I**  
An introduction to the field of American Studies. Students will be provided with a history of American Studies; consider its methodologies; be introduced to a sampling of subjects in which students of American Studies have been particularly interested; and read the classic, or seminal, works in the field. **P: So. stdg.**
- AMS 301 American Studies Seminar: The American Culture (3) AY**  
Comprehensive study of the mass culture of the United States, including past and present, low brow and high brow, mass media and regional differentiation, fads, tastes and values. **P: So. stdg.**
- AMS 302 American Studies Seminar: The American Character (3) AY (Same as ANT 302, HIS 302)**  
Comprehensive study of the values, attitudes, and characteristic behaviors of the American people. How and why are Americans different from others? What is the national character? What historical forces have formed this character? **P: So. stdg.**
- AMS 303 American Studies Seminar: The American People (3) II, AY (Same as HIS 303)**  
Comprehensive study of the various ethnic and social groups that compose the American people. Study of Native American groups and the various immigrants, and how they have interacted culturally and biologically to produce a new people. **P: So. stdg.**
- AMS 310 Religion and Contemporary American Society (3) II, ENY (Same as SOC 310)**  
An examination of religious beliefs, behaviors, and structures as they relate to contemporary America. In addition to studying established religious forms, attention is also given to the public controversies connected with religion and to new religious movements and trends. **P: So. stdg.**
- AMS 312 Mass Media and Modern Culture (3) I, II (Same as COM 312, ENG 312)**  
Examination of the role of film, television, and print media in American life. **P: ENG 120, 121, 150; Jr. stdg.**
- AMS 317 Philosophy of Sport (3) OD (Same as PHL 317)**  
Philosophical examination of the nature, meaning, and significance of sport, with special emphasis on the relationships among sport, play, and game. Investigation of ethical issues in sport, including sportsmanship, cheating, drug-testing, sexual equality, competition, and winning. Treatment of the relation of sport to social-political and aesthetic issues. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- AMS 318 Gender in American Society (3) I (Same as SOC 318, WGS 318)**  
Comprehensive examination of the forces shaping the position and behavior of women and men in modern American society. How and why do these positions and behavior differ? What are the consequences of these differences? Emphasis on gender as enacted across the spectrum of multicultural diversity in American society, with some comparison to other societies. **P: Jr. stdg.**
- AMS 325 American States and Regions (3) OD (Same as PLS 325)**  
Description and evaluation of American state governments and regional organizations. Examination of the theory of federalism and its current status; comparative analysis of state-level political actors and institutions. **P: So. stdg.**
- AMS 327 Minority Politics in America (3) OD (Same as PLS 327)**  
Explores the political experience of American racial and ethnic minorities with particular at-

tention to the experience of black Americans. Reviews roots and patterns of unequal treatment of minorities, tactics and strategies used to attack these patterns, contemporary situations, and the tension between integrationist and self-determination strategies. **P: So. stdg.**

- AMS 328 Mass Media in American Politics** (3) AY (Same as PLS 328)  
Analyzes the role of the media in contemporary American politics, focusing on its impact on public opinion, elections and day-to-day government. **P: So. stdg.**
- AMS 329 American Literature/American Identity** (3) II (Same as ENG 329)  
Analysis of the treatment of the American identity as it is represented in American literature of the colonial period to the present. **P: ENG 120, 121, 150.**
- AMS 335 Federal Indian Policy and Law** (3) II (Same as NAS 335, PLS 335, SWK 335)  
Investigates the relationships between Native American and Euro-Americans in terms of how the Natives were perceived and the impact this has had on Colonial and Federal policies relating to Native populations. Emphasis is on the historical, political and cultural aspects of the relationship. **P: So. stdg.**
- AMS 339 Public Policy and Poverty in the United States** (3) AY (Same as PLS 339, SWK 339)  
Government policies and programs affecting the poor in the United States. Issues include various elements of welfare programs and policies, entitlement programs such as Medicare and Social Security, problems of intergovernmental activity in administering social welfare. Examination of various critiques of social welfare policy and a review of reform proposals. Role of organized interests and public support relative to programs affecting the poor. Skill development includes policy formulation and analysis. **P: So. stdg.**
- AMS 341 American Cultural Minorities** (3) I (Same as AFS 341, ANT 341, BKS 341, SOC 341)  
Determinants and consequences of prejudice and discrimination; race, ethnocentrism, religious conflict, class structure. Consideration also given to proposed strategies for reducing inter-group tension. **P: So. stdg.**
- AMS 345 Sport in American Culture** (3) OD (Same as ANT 345)  
How American cultural norms, values, and beliefs are reflected in and are influenced by sport. Included will be issues of basic cultural values and ideology, racial and ethnic groups, gender, and the role sport plays in American culture. **P: Jr. stdg.**
- AMS 350 American Literature I: Beginnings to Civil War** (3) II (Same as ENG 350)  
An historical survey of American Literature from its beginning to 1860. **P: ENG 120, 121, 150.**
- AMS 351 Comparative American Character** (3) AY (Same as HIS 351)  
Study of political and social values projected by contemporary societies of the United States, Canada, and Latin America; how and why they differ from each other; is there a common American value system? **P: So. stdg.**
- AMS 353 Jazz in American Culture** (3) OD (Same as MUS 353)  
Examines the relationship between American society and the development of jazz in the course of the 20th century and beyond. Special attention will be given to those cultural, economic, and political factors which could influence jazz trends on a regional or national level.
- AMS 359 The City in United States History** (3) OD (Same as HIS 359)  
This course examines the development of urban areas in the United States during the 19th and 20th centuries. Of particular concern are the elements of urban architecture, economics, politics, demographics, and violence. To go beyond the generalizations of the assigned readings, the city of Omaha will be used as a laboratory for investigating these themes in a specific setting. **P: So. stdg.**
- AMS 365 Issues of the Native American Experience** (3) I, S (Same as NAS 365, SWK 365)  
Examination of Native American culture and values, social institutions and social systems. Presentation of issues emanating from being Native American. Consideration given to understanding the Native American experience from an historical perspective as well as the contemporary viewpoint. **P: So. stdg.**
- AMS 367 American Philosophy** (3) OD (Same as PHL 367)  
Surveys some of the works of significant figures in philosophy in America, both past and present. Includes classical American philosophy as well as important individuals outside that tradition. Focuses primarily on metaphysical and epistemological themes. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**

- AMS 368 Survey of American Art** (3) AY (Same as ART 368)  
Survey of American painting, sculpture, and architecture from pre-Revolutionary days to the present with focus on the historical forces that shape the American artist.
- AMS 372 Equality, Minorities, and Public Policy** (3) II, AY (Same as BKS 372, HIS 372, PLS 372)  
Incorporates continuing dialogues between a historian and a political scientist. Exploration of political processes whereby minorities have influenced the formulation and implementation of policy and governmental responses to demands for equal treatment. **P: So. stdg.**
- AMS 384 History of American Architecture** (3) II (Same as ART 384)  
A survey of the most important works of major architects from the Colonial period to the present. **P: So. stdg.**
- AMS 387 Modern Hispanic Art History** (3) (Same as ART 387, NAS 387)  
Modern Hispanic Art History will survey the painting, sculpture and architecture of Latin America along with some of its Spanish influences, from 1820 to the present. Native American and African influences on Latin American art will be surveyed. Key figures to be studied are: Rivera, Torres-Garcia, Lam, Matta, Kahlo, Varo, Chambi, Salgado, Barragan, Botero, Bravo, Jimenez, etc.
- AMS 393 African-American Literature** (3) II (Same as BKS 393, ENG 393)  
A survey of representative African American literature from its inception to the present. The particular representative authors and genres and the historical focus of the course may differ each semester. **P: ENG 120, 121, 150.**
- AMS 395 Selected Topics** (3) OD  
Course designed for the development of a relevant class of interest to the program and suited to the special-interest, one-time offering. An example of a topic is History of the American City. **P: Jr. stdg.; AMS coordinator consent.**
- AMS 400 Topical Seminar in American Studies** (3) OD  
Seminars offered on special topics related to American Studies. Topics vary from semester to semester. May be repeated under different subtitles. **P: Jr. stdg.**
- AMS 406 German Immigrant Culture in the United States** (3) (Same as GER 406, HIS 406)  
This course, a survey of German-American culture from the 19th century to the present, takes an interdisciplinary approach to the German immigrant experience in the United States and to questions of ethnic and national identity. **P: GER 317 and GER 318.**
- AMS 426 The West of the Imagination: Art, History and Myth of the American West** (3) OD (Same as SRP 426)  
This is an interdisciplinary course that compares the West of American history to the West of popular culture. It will examine the history of the frontier and the West and study their impact on American culture. The course begins with the mixing of European, African, Mexican, Asian and Indian cultures in the late 19th century in the trans-Missouri West and culminates with an analysis of the current state of affairs in that geographic area. **P: Sr. stdg.**
- AMS 432 Democratic Theory** (3) I, OD (Same as PLS 432)  
Major themes and thinkers on the role of government and the nature of a democratic political culture. Issues such as popular control, public participation, local autonomy, individualism, political liberty, authority, and variations in democratic political ideology are explored. **P: Jr. stdg.**
- AMS 437 Religion and Public Life in the United States** (3) OD (Same as PLS 437)  
Survey of American religious experiences and their impact on politics. Includes the guarantees of religious liberty, religion and political activism, and religion as a source of conflict and consensus. **P: So. stdg.**
- AMS 460 The History of Women in the United States** (3) OD (Same as HIS 460, WGS 460)  
The economic, social, and political status of women in the United States from colonial times to the present. Concentration on four major topics: the family, the work place, the community, and the feminists movements. An integral part is the examination of the traditional roles of women in society as well as changes in those roles. **P: So. stdg.**

- AMS 465 American Pragmatism** (3) OD (Same as PHL 465)  
Examination and critical evaluation of the major works and themes of the American pragmatists: C. S. Peirce, William James, and John Dewey. Includes an examination of their relation to other philosophers. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- AMS 467 History of The Art of Spain and Her Colonies** (3) I, II (Same as ART 467)  
A comprehensive survey of the major monuments of Spanish art from cave painting to the present, with emphasis on major artists (i.e., Montanes, El Greco, Zurburan, Velasquez, Goya, Picasso, Rivera, and etc.).
- AMS 468 Native American Art** (3) I (Same as ART 468, NAS 468)  
Survey of Native American art from the 16<sup>th</sup> century to the present with a concentration on the art of the continental United States. Includes Northwest, Southwest, and Plains cultures.
- AMS 469 Ethnohistorical Approaches to Native American Cultures** (3) II, AY (Same as ANT 469, HIS 469, NAS 469)  
This course's approach is ethnohistorical, combining the disciplines of history and anthropology to obtain multiple perspectives on the historical interactions between native and non-Native peoples. We will research historical and cultural topics concerning both Native and Euroamerican groups from the time of European incursion into North America to the present. The result of this course will be a final research paper on some theme in the history and culture of Native peoples. **P: So. stdg.**
- AMS 482 Race in America: Idea and Reality** (3) OD (Same as BKS/HIS/PHL/PLS/SRP 482)  
An examination of the idea and reality of race during key phases of U.S. history, with an emphasis on the contemporary situation. To understand the multiple meanings and experiences of race, the course draws on sources from science, literature, law, and philosophy. **P: Sr. stdg.**
- AMS 491 Senior Seminar** (3) II  
A research seminar required of all American Studies majors. **P: Sr. AMS major.**
- AMS 493 Directed Independent Readings** (3) OD  
Course designed to allow an individual student with an interest in a particular area to pursue it under the direction of a willing faculty member. **P: AMS coordinator consent.**
- AMS 497 Directed Independent Research** (3) OD  
Course designed to allow an individual student with an interest in a particular area to pursue it under the direction of a willing faculty member. **P: AMS coordinator consent.**
- AMS 585 American Studies Internship** (3) I, II, S  
A supervised on-the-job experience at governmental or private agencies in applying American Studies knowledge and skills to cultural resources management; museum, library, and/or archival work; historic preservation; and other areas. **P: AMS major; Jr. stdg.; DC.**

The remainder of the American Studies courses may be taken from the United States oriented classes offered by the cooperating departments of Anthropology, Art, Communication Studies, Economics, English, History, Journalism and Mass Communication, Philosophy, Political Science, Sociology, Theology, and Theatre. See the AMS Coordinator for a list of certified classes.



# ANTHROPOLOGY

*For the Anthropology Program of Study, please refer to page 181.*

- ANT 101 Introduction to Native American Studies: Anthropological Approaches** (3) I, II  
(Same as NAS 101)  
This course introduces students to the fundamental paradigms and methods of social science, particularly anthropology, sociology and history through a study of contemporary and historical Native American Studies. Through a series of lectures, discussions, and field trips to local sites, students will become familiar with the variety of historical and contemporary Native societies and the manner in which social scientists have and continue to dialogue with Native peoples in the present.
- ANT 108 The Native American World** (3) I, II (Same as HIS 108, NAS 108)  
This course is a survey of the development of Native American societies and cultures from their appearance on the continent to the present emphasizing the evolution of cultural, political, and social systems and the imprint of contact with Euro-American cultures. **P: HIS 101.**
- ANT 111 Introduction to Anthropology** (3) I, II  
Anthropology is the study of the unity and diversity of human beings. This introductory course takes a holist approach, focusing on our physical, social and cultural past and present by including all four fields of the discipline: Archaeology, Physical Anthropology, Linguistics, and Cultural Anthropology. While Archaeology and Physical anthropology focus on physical remains and our common biological makeup, Linguistics, and Cultural Anthropology explore the study of human communication and our richly diverse patterns of social behavior and beliefs.
- ANT 209 Qualitative Methods in the Social Sciences** (3) II (Same as SOC 209, NAS 209)  
Introduction to qualitative research methods within the social sciences. Includes research design, strategies for collecting ethnographic data with a particular focus on participant observation and field work, comparative research, theory building, and ethical issues involved with human research.
- ANT 212 Quantitative Methods in the Social Sciences** (3) I (Same as HAP 212, SOC 212)  
Introduction to quantitative research within the social sciences. Attention is directed to the basic logic and research techniques involved in studying the social world scientifically. Specific topics considered include research design, measurement, alternative data collection procedures, and ethical concerns involved in studying social life.
- ANT 214 Statistics for the Social Sciences** (4) II (Same as SOC 214)  
Broad introduction to the statistical techniques used by social scientists to analyze their data, including computer usage. Attention is directed to the basic procedures for organizing and describing data, for assessing relationships among social variables, and for using that information to make inferences about the population. 3R, 1L. **P: SOC 212.**
- ANT 244 Cross-Cultural Communication** (3) II, ENY (Same as COM 244)  
Course combines attention to sociolinguistic theory and analysis with practical strategies for maximizing communication between people from varying national, ethnic, professional, religious, and regional backgrounds. **P: So. stdg.**
- ANT 301 Social and Cultural Theory** (3) I (Same as SOC 301)  
An exploration of the ideas central to sociology and anthropology from the perspective of their historical and contemporary theories. Special attention is given to the implications of these ideas for understanding human social values. **P: So. stdg.**
- ANT 302 American Studies Seminar: The American Character** (3) AY (Same as AMS 302, HIS 302)  
Comprehensive study of the values, attitudes, and characteristic behaviors of the American people. How and why are Americans different from others? What is the national character? What historical forces have formed this character? **P: So. stdg.**
- ANT 307 Demography: World Population Issues** (3) I (Same as AFS 307, EVS 307, SOC 307)  
This course will provide a sociological examination of the development and evolution of different models of population dynamics from several contemporary cultures. It will place particular emphasis on the assumptions and logical consequences of each of these models. Includes a survey of historical and contemporary trends in population growth, as well as a review of competing perspectives about natural limits to that growth. **P: So. stdg.**

- ANT 310 Physical Anthropology (3) II, ONY**  
A survey of biological anthropology with a focus on the biological evidence for human adaptation and evolution. Major topics include human paleontology, primate evolution and behavior, and contemporary human variation.
- ANT 317 Global Health Issues (3) II, ONY (Same as AFS 317, HAP 317, SOC 317)**  
This course will examine the social production of health and disease from a global perspective. Related to these issues, is the topic of health and well-being in developing countries. **P: So. stdg.**
- ANT 319 Language, Culture, and the Individual (3) I, ONY (Same as COM 319)**  
The anthropological approach to the study of language examines the biological source and manner of human communication as well as the cultural processes that structure languages, their meanings, means of acquisition, and transformations. The course examines the inter-relationship of individuals, groups, and the wider culture through language. **P: So. stdg.**
- ANT 324 Native American World View, Culture and Values (3) II, ONY (Same as NAS 324, PHL 324)**  
This course takes a multidisciplinary approach to formulating the varieties of worldviews among Native groups with an emphasis on commonalities and uniqueness among different groups during different historical eras. The course begins by critically looking at reconstructions of Native worldviews in the pre European contact era as constructed by later Natives, anthropologists and ethno historians based on a variety of sources. The course focus on the many media through which Native cosmologies are expressed as well as the historical circumstances that have continued to transform Native cosmologies. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- ANT 326 Introduction to Archeology and Prehistory (3) II, ENY**  
A survey of the history, theories, and methods of archaeology. Topics will include the history of archeology, the archeological site, excavation, interpretation, and theoretical, environmental and cultural context. Also covered will be a summary of prehistoric culture, especially New World prehistory. **P: So stdg.**
- ANT 330 Museums and Social Science (3) S, OD (Same as HIS 330, NAS 330)**  
This course examines the interrelationship of how social scientists have theoretically understood society and culture and how they have structured and utilized museums. Students will study the history of both anthropological theory and museums as well as ethical and aesthetic issues and demonstrate their knowledge by creating an ethically responsible public virtual museum on the World Wide Web for a final project. **P: So. stdg.**
- ANT 331 Indians of the Great Plains (3) II, ONY (Same as NAS 331)**  
This course provides a comprehensive interdisciplinary approach to the study of Native cultures on the Great Plains. We will examine ecology, geography, geology, natural resources, archaeology, history, art, linguistics, cultures, as well as the human habitation of the area from first records (which are both archeological and oral historical) to the present. The course will be run seminar style. Each student (or group depending on the size of the class) will choose a specific cultural group for study. If a student is a member of a plains Indian group the student is required to study a linguistically and culturally different group. The professor will act as a resource for methodology and research strategies. Each student will bring to the seminar a summary of relevant data for the group she/he is studying and present it to the class. Students will also build a portfolio of short papers on each seminar topic that will be assembled into a major paper at the end of the semester. **P: So. stdg.**
- ANT 340 Native American Culture and Health (3) I (Same as NAS 340)**  
This course allows students to learn first hand about the culture and health care practices of Native Americans by participating in seminars offered by Native tribal and spiritual leaders, healers, and others who work with Native populations in promoting wellness and pride in culture. Students will participate in the course with other SPAHP students enrolled in the elective course "Learning through Reflective Service: Native American Experience." This course will be graded on a SA/UN basis. Satisfactory completion of the course requires that the student attend all class sessions unless excused by instructors. Only one excused absence is permitted before a grade of UN is issued. Active participation in discussion with guest speakers and fellow students is expected.

- ANT 341 American Cultural Minorities** (3) I (Same as AFS 341, AMS 341, BKS 341, SOC 341)  
Determinants and consequences of prejudice and discrimination; race, ethnocentrism, religious conflict, and class structure. Consideration also given to proposed strategies for reducing inter-group tension. **P: So. stdg.**
- ANT 342 Peoples and Cultures of Sub-Saharan Africa** (3) I, ONY (Same as AFS 342, BKS 342)  
An exploration of the people and places of Africa, south of the Sahara, from a variety of anthropological perspectives. It is an introduction to the cultures of Africa and a history of how those cultures have been perceived and interpreted. **P: So. stdg.**
- ANT 343 Peoples and Cultures of Native North America** (3) I, ENY (Same as NAS 343)  
Historic and ethnographic survey of the Native cultures of North America. Includes an analysis of the ecological, social, and ideological adaptations and cultural changes brought by contact with Euro-American populations. **P: So. stdg.**
- ANT 345 Sports in American Culture** (3) OD (Same as AMS 345)  
How American cultural norms, values, and beliefs are reflected in and are influenced by sport. Included will be issues of basic cultural values and ideology, racial and ethnic groups, gender, and the role sport plays in American culture. **P: So. stdg.**
- ANT 346 Peoples and Cultures of Latin America** (3) I (Same as NAS 346)  
A study of the cultures of Latin America. Includes an analysis of the culture history, ecological adaptations, social adaptations, and ideological adaptations, and explores the nature of culture change in these Spanish and Portuguese speaking regions of the Americas. **P: So. stdg.**
- ANT 347 Peoples and Cultures of Africa and the Middle East** (3) OD (Same as AFS 347, BKS 347)  
A study of the cultures of North Africa and the Middle East. Includes an analysis of the culture history, environmental, social and ideological adaptations, and explores the cultural changes of these predominantly Islamic cultures. **P: So. stdg.**
- ANT 348 Peoples and Cultures of Asia** (3) I, ONY  
A study of the cultures of South, East, and Southeast Asia. Includes an analysis of the culture history, environment, social, and ideological adaptations, and explores the changes in these cultures. **P: So. stdg.**
- ANT 349 Peoples and Cultures of India** (3) II, ONY  
Among the South Asian countries, India occupies a geographical position of dominance. But from the historical and sociological perspectives this nation state is much more important is its cultural and economic influences in the region. This course deals with Indian society and culture that have been undergoing rapid, often radical, changes in modern times. As Indian society and culture constitute a vast area of study, this course focuses on a few basic themes and examines them in some depth. **P: So. stdg.**
- ANT 350 Social Change** (3) I, ENY (Same as SOC 350)  
Major social trends in America and the world social change processes and social movements. Special focus on the emergence of a global system of economic, political, and environmental relationships. **P: So. stdg.**
- ANT 352 Witchcraft, Oracles and Magic: Anthropological Study of Religion** (3) I, ENY (Same as THL 352)  
This course studies the variety of ways in which anthropology describes and interprets religious phenomena. Its focus is on the phenomenon of religion within the context of specific human social groups. **P: So. stdg.**
- ANT 355 Environment and Society: Sociological Perspectives** (3) II (Same as EVS 355, SOC 355)  
Human societies interact with the natural environments in which they are embedded. An examination of the driving economic, political, cultural, and demographic forces that cause human modification of the natural world, the resulting social and environmental problems and public controversies. A focus on movements and policies related to environmental issues, and the prospects for the emergence of more environmentally “sustainable” societies. **P: So. stdg.**
- ANT 358 Critical Issues in the Study of Native American Religions** (3) II, ONY (Same as NAS 358, THL 358)  
This course utilizes anthropological perspectives in the study of Native American religion. The focus of the course is non-Western, non-proselytizing religions which are coterminous

with local political or kinship based social groups. The course looks at the history of the study of Native religions, the nature of Native religions as understood by a variety of disciplines, and the contemporary critique of colonialism by Native peoples specifically in regard to intellectual colonialism of Native knowledge and the practical colonialism inherent in the imitation of Native religions by non-tribal members.

- ANT 360 Gender, Society and Culture (3) II** (Same as SOC 360, WGS 360)  
Examines gender from a holistic perspective, including language, biology, cultural history, and socio-cultural variables. The course will examine gender in a wide variety of cultures. **P: So. stdg.**
- ANT 362 Applied Anthropology (3) OD**  
Will examine anthropology's role, as a profession, in dealing with contemporary human problems. This course will introduce students to key anthropological concepts, theories and research methods, and demonstrate the usefulness of these tools in identifying, assessing, and solving problems by using case studies. **P: So. stdg.**
- ANT 363 Medical Anthropology (3)**  
This course utilizes a variety of anthropological theories to explore human experiences of health, illness and healing. It examines how cultures both conceptualize illness and shape healing systems, studies adaptations between humans and pathogens, and considers how different social power relations affect disease patterns. The course also includes topics such as types of healers, diagnostic techniques, ritual and pharmacological therapies, spirit possession, and shamanism.
- ANT 400 Topical Seminar in Anthropology (3) OD**  
Seminars offered on special topics related to anthropology. Topics vary from semester to semester. May be repeated under different subtitles. **P: Jr. stdg.**
- ANT 409 Race and Gender Relations: Moral and Ethical Dilemmas (3) S** (Same as SRP 409, SWK 409, WGS 409)  
This course explores the multiple faceted experience of being a person of color, a specific gender, and immigrant in the United States. Institutional forces (economic, educational, familial, political, and social welfare) are examined that influence the structure and status of persons of color, immigrants and women and men. Emphasis is understanding the diversity of the United States and the connections between and among race, gender and class and their complexity. Ways to better understand and interact are presented in addition to ways to foster social change. **P: PHL 250 or THL 250; Sr. stdg.**
- ANT 444 Non-Violence and Peaceful Resolution of Conflict: Cross-Cultural and Political Perspectives (3) OD** (Same as JPS 444, PLS 444, SRP 444)  
Peace is more than the absence of war. Course seeks to understand differing views of peace, violence, war, non-violence, and peaceful resolution of conflict. Students assess their views on alternatives to violence and apply differing modes of conflict resolution. **P: PHL 250 or THL 250; Sr. stdg.**
- ANT 455 Food, Society, and Environment (3) II** (Same as EVS 455, SOC 455, SRP 455)  
Access to food is a universal, basic human need. This course considers the social and cultural significance of food, the ecological implications of producing it, and the social justice issues that surround its distribution from several disciplinary perspectives. **P: Sr. stdg.**
- ANT 469 Ethnohistorical Approaches to Native American Cultures (3) II, ONY** (Same as AMS 469, HIS 469, NAS 469)  
This course's approach is ethnohistorical, combining the disciplines of history and anthropology to obtain multiple perspectives on the historical interactions between native and non-Native peoples. We will research historical and cultural topics concerning both Native and Euroamerican groups from the time of European incursion into North America to the present. The result of this course will be a final research paper on some theme in the history and culture of Native peoples. **P: So. stdg.**
- ANT 493 Directed Independent Readings (1-6) I, II, S**  
Survey of the literature related to a topic in anthropology not covered in the student's course work. Undertaken in close cooperation with a supervising faculty member. May be repeated to a limit of six hours. **P: IC.**

- ANT 495 Directed Independent Study** (1-6) I, II, S  
Student-initiated project on a focused topic in anthropology, utilizing library materials and involving close cooperation with a supervising faculty member. May be repeated to a limit of six hours. **P: IC.**
- ANT 497 Directed Independent Research** (1-6) I, II, S  
Student-initiated empirical project on a focused topic in anthropology, involving close coordination with a supervising faculty member. May be repeated to a limit of six hours. **P: IC.**
- ANT 525 Archaeological Fieldwork and Analysis** (3) S (Same as CNE 525, THL 525)  
The student learns the principles of stratigraphic archaeology (or underwater archaeology) by participating in an excavation for a minimum of four weeks. The student will learn stratigraphic theory and excavation strategy, basic archaeological techniques, and the basic analysis of archaeological materials recovered from the site. (Underwater archaeologists will learn basic underwater techniques in place of some terrestrial methods.) **CO: ANT 526.**
- ANT 526 Archaeology of Roman Palestine** (3) S (Same as CNE 526, THL 526)  
This is a study of ancient Palestine from the rise of the Herodian dynasty in the first century B.C.E. to the aftermath of the Muslim conquest in the seventh century C.E. the material of the course is the physical remains of archaeological sites throughout modern Israel, along with movable cultural remains that issued from these sites. The major focus of the course will be the interaction between Classical Mediterranean civilization on the one hand, and the Jews and other Middle Eastern peoples on the other, in the age that yielded Rabbinic Judaism, Christianity and Islam. **CO: ANT 525.**

## *ARABIC*

- ARA 101 Elementary Modern Standard Arabic I** (3) I  
Pronunciation and writing drills; the basic inflection of the regular and hollow verb, form I through X; inflection of nouns and adjectives; root and pattern system and basic use of the dictionary; basic syntax; oral and written exercises. Open only to non-speakers of the language.
- ARA 102 Elementary Modern Standard Arabic II** (3) II  
Continuation of ARA 101. Doubled verbs, defective verbs; the subjunctive, passive and imperative; the passive voice; complex syntax; the masdar, active and passive participles; the adverb; conditional sentences; exclamations; oral and written exercises; reading. Open only to non-speakers of the language. **P: ARA 101 or IC.**
- ARA 115 Intensive Beginning Arabic** (6)  
Pronunciation and writing drills; the basic inflection of the regular and hollow verb, form I-X; inflection of nouns and adjectives; root and pattern system and basic use of the dictionary; basic syntax; oral and written exercises. Not open to native speakers of the language.
- ARA 201 Intermediate Modern Standard Arabic** (3)  
Course designed to help students make the transition to natural communication and to develop further all four language skills (listening, speaking, reading, and writing), as well as provide insight into the life and culture of Arabic-speaking countries. **P: ARA 102.**

## ART

*For the Art Program of Study, please refer to page 141.*

- ART 104 Elementary School Art (3) II**  
Principles underlying the visual arts as exemplified in various forms and media laboratory work to develop basic skills required in elementary school art activities **P: EDU DC.**
- ART 105 Art Fundamentals (3) I, II**  
Basic drawing and basic design. Use of pencil, charcoal, pen, brush, and collage. 6S.
- ART 153 Sculpture I (3) II**  
Introductory course designed to enhance the student's ability to draw on his/her instinctual ability in three dimensions in expressing ideas and using the cube as a basic form.
- ART 211 Introductory Ceramics (3) I, II, S**  
Handbuilding, throwing, decorating, glazing, and firing of clay. 6S. **P or CO: ART 105 for majors; none for others.**
- ART 219 History of Art (3)**  
Survey of the artistic heritage of the Western World from ancient Greece to the present, emphasizing the period from the Renaissance to the 20th Century
- ART 253 Sculpture II (3) I, II, S**  
Presentation of the traditional, classical approach to art by the experience of modeling in clay from live subjects. Opportunity for Art majors to sharpen perceptual, aesthetic, and functional skills and for non-Art majors to experience what art is and how it comes about in a sculpture studio. **P or CO: ART 105 and ART 106 for Art majors.**
- ART 271 Photography Studio I (3) I, II, S**  
Introduction to the process of producing a photograph—both the mechanical/chemical and the aesthetic judgmental processes. Review of the work of great photographers; critique and evaluation of student work. 2R, 1L. **P: So. stdg.; P or CO: ART 105 for Art majors. Not open to students enrolling as auditors.**
- ART 295 Special Projects (1-6) I, II**  
For the non-Art Major. Requires a University sponsor and written DC and IC. Students may repeat this course up to a total of six semester hours.
- ART 306 Color: Acrylic and Chalk (3) I, II**  
Basic functions of color and advanced design. Use of watercolor, chalk pastel and various color media. The search for personal themes through color. 6S. **P: ART 105.**
- ART 311 Intermediate Ceramics I (3) I, II, S**  
Refining of personal technique on the potter's wheel and discovering new uses for clay as an expressive material. 6S. **P: ART 211.**
- ART 312 Intermediate Ceramics II (3) I, II**  
Continuation of ART 311. 6S. **P: ART 311.**
- ART 319 Art International: The Art Culture of the Global Community (3) I, II (Same as NAS 319)**  
A general survey of non-western art. The course will introduce African, Asian, and Native American art forms from ancient to contemporary. The painting, sculpture and architecture of each culture are selected to demonstrate the key values and concerns of those cultures. Two lectures will present Islamic and Oceanic art.
- ART 321 Life Drawing I (3) I, II**  
Drawing from undraped model in a variety of media; some anatomy theory. 6S. **P: ART 105.**
- ART 322 Life Drawing II (3) I, II**  
Continuation of ART 321. 6S. **P: ART 321.**
- ART 325 Digital Video Photography (3) I (Same as JMC 325, NAS 325)**  
Students learn how to use a video camera to shoot and produce a narrative documentary using computer editing programs. Students produce their own five-minute documentary.
- ART 328 Advertising Design II (3) II**  
Continuation of ART 327. May be used as elective credit. **P: ART 327.**

- ART 331 Painting I (3) I, II**  
Oil paint used on paper, board and canvas. A great variety of aesthetic attitudes and technical approaches. 6S. **P: ART 105; Suggested P: ART 306 (for Art majors).**
- ART 332 Painting II (3) I, II**  
Continuation of ART 331 with emphasis on independent research in areas of preference and need. 6S. **P: ART 331.**
- ART 345 Relief Printing: Woodcut and Linoleum (3) I**  
Exploration of the process of making color relief prints on paper from wood and linoleum. **P: ART 105.**
- ART 347 Etching I (3) I, II**  
Creating an image on a metal plate which will be printed on paper. 6S. **P: ART 105.**
- ART 348 Etching II (3) I, II**  
Introduction to multiplate color printing. 6S. **P: ART 347.**
- ART 349 Egyptian Art and Archaeology (3) OD (Same as CNE 349, HIS 349, THL 349)**  
This course will explore the history, society, culture, and religion of ancient Egypt from the predynastic era through the Ptolemaic period, as revealed through its artistic and material remains. Attention will be given to how sculpture, painting, architecture, and other material remains provide a window on Egyptian life and thought. **P: So. stdg.**
- ART 350 Archaeology of Syria-Palestine (3) OD (Same as CNE 350, HIS 350, THL 350)**  
A chronological survey of the archaeology of Syria-Palestine in which material culture provides a window on the history of society, economy, and religion from the Neolithic to Hellenistic times. Special topics include the emergence of farming and pastoral societies, the formation and dissolution of Bronze Age city-states, and the rise and fall of Iron Age kingdoms such as Israel, Moab, and Edom. **P: So. stdg.**
- ART 353 Sculpture III (3) I, II, S**  
This course is designed to explore figure sculpture on the intermediate level and to expand on what students have learned in ART 253. Techniques will include basic mold making, wax casting, plaster and finally bronze casting. We will proceed with the study of artistic anatomy of the body translating this knowledge into form and structure. Projects will range from anatomical studies to full figure sculptures in the round. This course is for the major and non-major alike. **P. ART 253.**
- ART 354 Greek Art and Archaeology (campus) (3) II (Same as CNE 354)**  
Study of the sculpture, painting, architecture, and sites of ancient Greece with emphasis on their archaeological, historical, and geographical aspects.
- ART 355 Greek Art and Archaeology (travel course) (3) (Same as CNE 355)**  
Travel course. Twenty-three days. Mainland tour includes Athens, Eleusis, Corinth, Mycenae, Epidaurus, Sparta, Pylos, Olympia, Delphi, Meteora, Brauron, and Sounion. Island visits include four days on Crete and two days on Santorini. On-site and background lectures.
- ART 359 Creativity, Problem Solving, Goal Reaching (3)**  
Covers the nature of creativity, sources of creativity and keys to developing creativity. Introduces creative habits and disciplines by using problem solving methods. Not applicable toward Art major; may be taken for elective credit. **P: Jr. stdg.**
- ART 360 Art of the Middle Ages (3) AY**  
Architecture, painting, and sculpture of Europe from the 4th century to the 14th century.
- ART 361 Art of the Renaissance in Europe (3) AY**  
Painting, sculpture, and architecture in Italy and Northern Europe from 1300 to 1600, including such artists as Giotto, Botticelli, Michelangelo, Leonardo da Vinci, Raphael, Campin, Van Eyck, Van der Weyden, and Bosch.
- ART 362 Early Christian Art and Archaeology (3) OD (Same as CNE 362)**  
Study of the development of Early Christian architecture, painting, sculpture and industrial arts; archaeological excavation of early churches and catacombs with emphasis on problems of interpretation; Western and Byzantine iconography.
- ART 363 Baroque Art (3) AY**  
Painting, sculpture and architecture in Europe during the 17th and 18th centuries. Focus on such artists as Rubens, Rembrandt, Velasquez and Bernini.

- ART 364 History of Architecture (3) AY**  
Survey of architectural styles and structures from ancient Egypt to the present. Focus on the function, material, technique, and form of each structure.
- ART 365 Greek Art (3) OD (Same as CNE 365)**  
Sculpture, painting and the minor arts of Greece.
- ART 366 Etruscan and Roman Art (3) OD (Same as CNE 366)**  
Sculpture, painting, and the minor arts of the Etrusco-Roman people.
- ART 367 Nineteenth Century Art (3) II, AY**  
Study of the art of the 19th century, including Romanticism, Neo-Classicism, Realism, Impressionism and Post-Impressionism.
- ART 368 Survey of American Art (3) AY (Same as AMS 368)**  
Survey of American painting, sculpture, and architecture from pre-Revolutionary days to the present with focus on the historical forces that shape the American artist.
- ART 369 Modern European Art, 1900-1945 (3) I AY**  
Survey of 20th-century painting, sculpture and architecture in Europe. Focus on Fauvism, Cubism, Expressionism, Dadaism and Surrealism.
- ART 371 Photography Studio II (3) II, S**  
Introduction to the zone system of black and white photography; study of great photographers' work; critique and evaluation of student work. 2R, 1L. **P: ART 271 or IC. Not open to students enrolling as auditors.**
- ART 372 Color Photography (3) II, S**  
Introduction to color theory and printing; critique sessions of student's work. 2R, 1L. **P: ART 271 or IC. Not open to students enrolling as auditors.**
- ART 373 Photographic Design and Non-Silver Process (3) OD**  
An extension of conventional photographic techniques using antiquated emulsions applied to papers and fabrics, hand coloring and toning, combination images, and optional mixed-media explorations. **P: ART 271.**
- ART 375 Photojournalism I (3) I, II (Same as JMC 375, NAS 375)**  
An introduction to photography as a means of reporting news, including the use of film and/or digital cameras to prepare photographs for print or web publication.
- ART 376 The Photo Diary (3) II**  
Investigation of the diary form of reflection on personal themes such as family roots, displacement, death and loss, personal relationships, transcendence, etc. Students will use photographs along with words to record and communicate regular reflection pieces. Examples from various autobiographical and journal formats will be studied. Students are not expected to have prior knowledge of photography. Simple equipment is sufficient. No darkroom work required. **P: Jr. stdg; consent of the Director of the Jesuit Humanities Program.**
- ART 377 Editorial Illustration (3) II (Same as JMC 377)**  
A studio-lighting course with classes and assignments structured to the type of assignment a working photojournalist receives at a major metro daily. Includes portrait, fashion, food product, and editorial illustration. **P: ART 375 or JMC 375 or DC.**
- ART 378 Photojournalism II: Picture Editing (3) I, II (Same as JMC 378)**  
Principles of design for newspapers and magazines with appropriate assignments. Emphasis on the use of photographs. **P: ART 375.**
- ART 379 Print Design (3) I, II (Same as JMC 379)**  
Introduction to the design of the printed page using typography, photographs and graphics. Hands-on computer assignments and critiques.
- ART 380 History and Criticism of Cinema (3) I, S (Same as COM 380, ENG 380)**  
Motion pictures as a distinctive medium of communication and as an art form; film language; film history; film appreciation; critical assimilation of film content. **P: ENG 120, 121, 150.**
- ART 381 Computer Illustration (3) I (Same as JMC 381)**  
Illustrating editorial and visual ideas using the Macintosh computer and a variety of computer graphic tools. The main program used will be Adobe Photoshop which will enable the students to work with and combine visual elements from photographs and artwork.



Color theory, scanning, calibration, halftones, color separating. Photo-CD and the electronic darkroom will be covered with appropriate assignments.

- ART 382 Web Design (3) I, II, S (Same as JMC 382)**  
An introduction to the design of online publications, including elements of online layout, typography, graphics to create well designed web sites.
- ART 383 History and Aesthetics of Photography (3) I, II**  
Study of the history of photography: historical, scientific, philosophical foundations; connection with other forms of literary and visual, fine and performing arts; the impact of the photograph on society and media; the ethics of “taking” and “making” a photograph. Survey of the work of acclaimed masters of the medium as well as of the contemporary poets of photographic language.
- ART 384 History of American Architecture (3) II (Same as AMS 384)**  
A survey of the most important works of major American architects from the Colonial period to the present. **P: So. stdg.**
- ART 386 The History and Aesthetics of Latin American Photography (3) (Same as NAS 386)**  
Examination of the history and aesthetics of photography as a medium of visual expression in the culture of Latin America. Study of the evolution of contemporary Latin American photography from its 19th century “colonial” roots through periods of 20th century revolution and independence to the contemporary post-modern idiom of Latin American image-making. Emphasis on the study of photographic themes that are specific to the Latin American cultural experience: colonialism, revolution and independence, native and tribal society, religion and cult, economic oppression and poverty, politics and self-determination, geography and natural resources, language and architecture.
- ART 387 Modern Hispanic Art History (3) (Same as AMS 387, NAS 387)**  
Modern Hispanic Art History will survey the painting, sculpture and architecture of Latin America along with some of its Spanish influences, from 1820 to the present. Native American and African influences on Latin American art will be surveyed. Key figures to be studied are: Rivera, Torres-Garcia, Lam, Matta, Kahlo, Varo, Chambi, Salgado, Barragan, Botero, Bravo, Jimenez, etc.
- ART 390 Sculptural Glass Casting (3) OD**  
Class will take the student through the processes of creating sculpture in cast glass. The processes covered will be clay sculpture, mold making, casting of glass and the finishing of the glass sculpture.
- ART 391 History and Methods of Art History (3) II**  
Intensive reading and discussion in selected topics on the history and methods of art history. Recommended for art history majors. **P: ART 219.**
- ART 392 Seminar in Art Criticism (3) OD**  
Special topics in art criticism. Topics and focus of seminar changes each time the course is offered. **P: ART 219.**
- ART 395 Summer Art Studio (1-3) S**  
Summer studio concentrating on a specific area of studio art not normally offered during the regular year. Area of concentration varies and is announced in the *Summer Bulletin* each year. May be repeated for credit to a limit of nine hours. **P or CO: ART 105 for Art majors; none for others.**
- ART 397 Summer Art History Seminar (1-3) S**  
Summer seminar concentrating on the history and issues of a specific area of art history not normally offered during the regular academic year. The area of concentration varies and is announced in the *Summer Bulletin* each year. May be repeated for credit to a limit of nine hours. **P: ART 219 or IC.**
- ART 411 Advanced Ceramics I (3) I, II, S**  
Designed to promote individual development in the use of materials and processes of the ceramic artist. 6S. **P: ART 312.**
- ART 412 Advanced Ceramics II (3) I, II**  
Continuation of ART 411. 6S. **P: ART 411.**
- ART 418 Jesus Through the Ages: Ideas and Images Toward a Coherent Christian Identity**

**and Ethic (3)** (Same as SRP 418, THL 418)  
Employing methods of the fine and performing arts and theology (historical and systematic), this course will seek the “real” Jesus amidst a plethora of images and ideas used by Christians throughout the ages to depict Jesus Christ. It will critique the historical-cultural dependencies of these images and ideas to discern which of them, if any, remain normative for Christianity, which are time-bound, which still speak powerfully, which do not and why. In the process this course will not only inform students about the single most significant figure in human history but engage them in a personal search for an authentic Christian identity and ethic. **P: Sr. stdg. and PHL 250 or THL 250.**

- ART 421 Life Drawing III (3)** I, II  
Continuation of ART 322. 6S. **P: ART 322.**
- ART 422 Life Drawing IV (3)** I, II, S  
Continuation of ART 421. **P: ART 421.**
- ART 423 Multimedia Design I (3)** II (Same as JMC 423)  
The course examines interactive media aesthetics and concerns. The course explores techniques in designing multimedia for the Web and CD-ROM distribution. **P: JMC 381, 382 or IC.**
- ART 424 Typography and Advanced Projects (3)** (Same as JMC 424)  
The course is an intense examination of the use of typography in both historical and modern contexts. Students will learn effective ways to utilize type in a variety of digital and print media, with lectures in aesthetic, strategic and technical use of final projects that will showcase the strategic use of appropriate custom digital and hand-rendered typography. **P: ART 379.**
- ART 425 3D Graphics and Animation (3)** (Same as JMC 425)  
An advanced 3D computer graphics and animation course that builds on the design and illustration concepts developed in the fundamental JMC graphic design courses. Students will learn to develop illustrations in a three dimensional space and learn the basics of 3D animation. **P: ART 379.**
- ART 428 Film and the Fine Arts (3)** OD (Same as SRP 428, THR 428)  
Film as an art form and its relationship to art history, music, and theatre history; the history of styles of acting, design, music, and art in film in the 20th century. Criticism of film art. Course requirements include discussion, examinations and critical writing. Extensive use of the Internet. **P: PHL/THL 250 and Sr. Stdg.**
- ART 430 Selected Topics in Ancient Art and Archaeology (3)** OD (Same as CNE 430)  
Topical or regional focus in the area of ancient art and/or archaeology. Course will be subtitled in the *Schedule of Courses*. Course is repeatable as long as subtitle is different.
- ART 431 Painting III (3)** I, II, S  
Continuation of ART 332. **P: ART 332.**
- ART 432 Painting IV (3)** I, II, S  
Continuation of ART 431. **P: ART 431.**
- ART 446 Glass Casting in the Kiln (3)** OD  
Students learn how to cast glass sculptures and relief forms with the aid of an electric kiln.
- ART 447 Etching III (3)** I, II  
Research into new ways of creating and printing, 6S. P: ART 348. May be repeated to a limit of six hours. **P: ART 348.**
- ART 448 Etching IV (3)** I, II  
Continuation of ART 447. **P: ART 447.**
- ART 453 Sculpture IV (3)** I, II, S  
This course is designed to explore figure sculpture on the advanced level and to expand on what students have learned in ART 353. Techniques will include armature design and construction, advanced mold making, wax casting, plaster and finally bronze casting. We will proceed with the study of artistic anatomy of the body translating this knowledge into form and structure. Projects will range from a series of busts to full figure sculptures in the round. Students are encouraged to develop personal themes and work in series. This course is for the major and non-major alike. **P. ART 353**

- ART 454 Sculpture V (3) OD**  
This course is designed to expand on ART 453. Students focus on their own ideas either in metal or other materials. Course goal is to produce a series of artworks based on a theme or subject of choice. Projects will range from figure busts to 6 ft. figure in the classroom studio. Students may elect to work on a large scale hypothetical commission. We will continue with the study of artistic anatomy of the body in motion translating this knowledge into form, structure and gesture. This course is for the major and non-major alike. **P: ART 453.**
- ART 461 The City of Rome (3) OD (Same as CNE 461)**  
An Architectural, Artistic, and Social Historical Survey of the city of Rome, concentrating on the ancient city but also tracing its development (as appropriate) through modern times. Political History will be covered to the extent needed to provide a framework for the course, but does not overlap with CNE/HIS 404.
- ART 465 Contemporary Art (3) I, AY**  
Examination of painting and sculpture, since 1945, focusing on Abstract Expressionism, Pop, Op, Minimal, Conceptual, Earth, Photorealism. **P: ART 219**
- ART 466 The Idea of Rome in the Arts (3) OD**  
The art of “The Eternal City”—architecture, urban planning, painting, sculpture, printmaking, photography, literature, poetry, music, and film—which has as its central theme the City of Rome. Course aims to identify the features that characterize Roman art from antiquity to the present and to examine the significance of this art in the context of Roman politics, religion, and history. **P: IC.**
- ART 467 History of The Art of Spain and Her Colonies (3) I, II (Same as AMS 467)**  
A comprehensive survey of the major monuments of Spanish art from cave painting to the present, with emphasis on major artists (i.e., Montanes, El Greco, Zurbaran, Velasquez, Goya, Picasso, Rivera, and etc.).
- ART 468 Native American Art (3) OD (Same as AMS 468, NAS 468)**  
Survey of native American art from the 16th Century to the present with a concentration on the art of the continental United States. Includes Northwest, Southwest, and Plains cultures.
- ART 479 Visual Communications Internship (1-3) I, II, S (Same as JMC 479)**  
Students will gain professional experience in graphic design through working in supervised graphic design jobs. Graded Satisfactory/Unsatisfactory. **P: ART 379; IC.**
- ART 480 Management of Arts Organizations (3) I**  
An overview of management concepts and theories as applied to arts organizations. Development of an understanding of the balance between the individual and the organization, the artist and the organization, and the community and the organization.
- ART 481 Arts Management Internship (3) II**  
Placement in area arts organizations on a part-time basis for one semester, witnessing first-hand the nature and business of these organizations. Placement in Omaha area arts organizations such as, the Creighton Art Gallery or Theatre Box Office, Omaha Symphony, Nebraska Shakespeare Festival, or Joslyn Museum. **P: ART 480.**
- ART 493 Directed Independent Readings (1-3) I, II**  
Subject matter and method to be worked out individually. May be repeated to a limit of six hours. **P: 12 hours upper-division Art History/Theory courses; IC.**
- ART 495 Directed Independent Projects (1-3) I, II**  
Directed research and study in Art to meet the individual needs of the student. May be repeated to a limit of six hours. **P: IC.**
- ART 497 Directed Independent Research (1-2) I, II**  
Research work in student’s area of concentration. Permission granted following consultation with supervising instructor and consent of department chairperson. Credit dependent on project. May be repeated to a limit of six hours. **P: DC; Sr. stdg; written IC.**
- ART 499 Senior Thesis (1-3) I, II**  
Open to all seniors. Required of B.F.A. candidates. After choosing a thesis advisor, the student registers for one credit in the first semester of the senior year and for two credits in the final semester. **P: Sr. stdg.; DC; written IC.**

## ***ATHLETIC TRAINING***

*For the Athletic Training Program of Study, please refer to page 139.*

- ATE 125 First Aid (2) I, II, S (Same as EXS 125)**  
American Red Cross Responding to Emergencies, Cardiopulmonary Resuscitation and Automated External Defibrillator Certifications may be earned. Emphasis on recognizing an emergency and providing care until professional medical help arrives.
- ATE 161 Squad Participation (1) I, II**  
Members of a varsity athletic team in the six men's and eight women's sports may enroll in this course for one hour of credit for a maximum of four semesters. Graded Satisfactory/Unsatisfactory.
- ATE 195 Introduction to Athletic Training (3) I, II, S (Same as EXS 195)**  
Cognitive and practical experiences designed to introduce basic athletic training principles and skills to students entering the field of sports medicine and other health care careers.
- ATE 210 Athletic Training Practicum I (1) I**  
Hands-on experience in athletic training techniques and procedures. Skills learned include basic taping, injury evaluation, treatment, and rehabilitation techniques. **P: ATE 195, AT major or IC.**
- ATE 211 Athletic Training Practicum II (1) II**  
Hands-on experience in athletic training techniques and procedures. Skills learned focus on techniques used in evaluation and assessment of the lower body. **P: 195, 210, 395, AT major, or IC.**
- ATE 240 Designing a Personalized Fitness Program (3) I, II (Same as EXS 240)**  
Assessment of individualized fitness level and the development of a personal fitness program. Lecture topics include physiological testing protocols, the explanation and evaluation of various forms of exercise, training guidelines for aerobic and anaerobic exercise programs and risk factors associated with cardiovascular disease. Two lectures and two activity sessions per week.
- ATE 305 Therapeutic Modalities (3) I**  
The purpose of this course is to educate the student pursuing a career in sports medicine in the basic principles of the use of therapeutic modalities as it relates to the athletic setting. An emphasis will be placed upon the practical use of these principles in the athletic training room setting in conjunction with associated program coursework. **P: ATE 195, 210, 310, AT major or IC.**
- ATE 306 Therapeutic Exercise (3) II**  
The purpose of this course is to educate the student pursuing a career in athletic training in the basic principles of rehabilitation and specific therapeutic exercise techniques as they relate to the care of the physically active. Special emphasis will be placed upon the practical use of these principles and techniques in laboratory settings and in the collegiate athletic training room setting in conjunction with practical experience. **P: ATE 195, 210, 211, 310, AT major or IC.**
- ATE 310 Athletic Training Practicum III (1) I**  
Clinical experience in athletic training techniques and procedures. An emphasis is placed upon injury evaluation and assessment of the upper body. **P: ATE 195, 210, 211, 395, 396, AT major or IC.**
- ATE 311 Athletic Training Practicum IV (1) II**  
Practical experience in athletic training techniques and procedures. An emphasis is placed on therapeutic modalities as well as other clinical skills. **P: ATE 195, 210, 211, 305, 310, AT major or IC.**
- ATE 320 Human Physiology (4) I, II, S (Same as EXS 320)**  
An undergraduate human physiology course for Exercise Science and Athletic Training students and others interested in allied health professions. The course includes detailed coverage of the human organ systems and focusing on normal function, but also incorporating discussion on physiological changes with physical activity and certain diseases. Information is presented at all levels from the sub-cellular level to the entire organism. **P: BIO 211 or 212; CHM 203 204 or 205/206; EXS or AT major or IC.**

- ATE 331 Human Anatomy** (4) I, II, S (Same as EXS 331)  
Provides students with a basic knowledge of the structure and function of the human body. Lecture topics range from anatomical terminology to comprehensive overviews of the individual systems. Dissected cadaver specimens and anatomical models are used as learning aids. **P: BIO 211 or 212; CHM 203/204 or 205/206; EXS or AT major or IC.**
- ATE 334 Biomechanics** (3) I, II (Same as EXS 334)  
Introduction to the biomechanics of human movement. Study of the musculo-skeletal system with special emphasis on the application of physical laws and principles that govern movement of the body. **P: ATE 331, EXS or AT major, or IC.**
- ATE 335 Exercise Physiology** (4) I, II (Same as EXS 335)  
Study of the major physiological systems in the body and their response to exercise and exercise programs. Includes application of physiological concepts to physical training. **P: BIO 211 or 212; CHM 203/204 or 205/206, ATE 240 and ATE 320 or IC; EXS or AT major.**
- ATE 350 Nutrition for Health and Sports Performance** (3) I, II (Same as EXS 350)  
Considerable information is provided regarding the six classes of nutrients. Lectures focus on applying knowledge in nutrition into a framework upon which performance and conditioning strategies can be based or from which recommendations can be made for health enhancement. **P: BIO 211 or 212; CHM 203/204 or 205/206; ATE 335; EXS or AT major or IC.**
- ATE 355 Athletic Training Administration** (3) II, ENY  
Provides students with an understanding of the management knowledge and skills that entry-level athletic trainers should master. This course will also enhance the administrative ability of students preparing to enter the field of athletic training. Lectures focus on practical situations and discussion of management strategies. This course also includes a section on pharmacology principles. **P: ATE 195, 210, 211, AT major or IC.**
- ATE 395 Lower Body Evaluation** (3) I  
The study of the evaluation, assessment, and recognition of athletic injuries involving the lower body. Uses knowledge of regional anatomy to assist with learning specific evaluation techniques. Special emphasis is placed on emergency management. **P: ATE 195, AT major or IC.**
- ATE 396 Upper Body Evaluation** (3) II  
The study of the evaluation, assessment and recognition of athletic injuries involving the upper body. Uses knowledge of regional anatomy to assist with learning specific evaluation techniques. Special emphasis is placed on emergency management. **P: ATE 195, ATE 331, ATE 395, AT major or IC.**
- ATE 410 Athletic Training Practicum V** (1) I  
The course teaches athletic training students clinical techniques and procedures commonly used in the field of athletic training. An emphasis is placed upon therapeutic exercise techniques and general medical conditions. **P: ATE 195, 210, 211, 305, 306, 310, 311, 395, 396, AT major or IC.**
- ATE 411 Athletic Training Practicum VI** (1) II  
The course teaches athletic training students clinical techniques and procedures commonly used in the field of athletic training. An emphasis is placed upon pharmacology, nutrition, and administrative issues. **P: ATE 195, 210, 211, 310, 311, 410, AT major or IC.**
- ATE 475 Directed Study in Athletic Training** (1) II  
Course is designed to help athletic training students prepare for a professional career in athletic training. This course uses knowledge gained in all previous athletic training courses to assist students in reviewing materials and techniques needed to become successful athletic trainers. **P: Senior Standing, AT major, or IC.**
- ATE 488 Athletic Training Internship** (3) I, II  
Students are to work under the supervision of a NATABOC certified athletic trainer in a variety of athletic training settings including a local small college, local high school, local professional team, and a local sports medicine clinic. Students assume positions of responsibility and will demonstrate appropriate leadership skills and knowledge. Some weekend duties and travel are included. **P: Jr. stdg, AT major or IC.**

## ATMOSPHERIC SCIENCES

*For the Atmospheric Sciences Program of Study, please refer to page 114.*

- ATS 113 Introduction to Atmospheric Sciences** (3) I, II, S (Same as EVS 113)  
Introduction to causes of the weather for science and nonscience majors. Topics covered include cloud identification; factors influencing the development of storm systems; effects of jet streams on storm development; the formation of thunderstorms, tornadoes, and hurricanes; climatic change, and human influence on climate and weather systems.
- ATS 114 Introduction to Atmospheric Sciences Laboratory** (1) I, II, S (Same as EVS 114)  
Laboratory designed to familiarize students with analysis techniques in meteorology. Topics include weather observations; weather symbols and coding; map plotting and analysis; and basic forecasting techniques. Students will become familiar with the PCMcIDAS system. Accessing climate and forecast data from the internet is emphasized in select laboratory models. **CO: EVS 113.**
- ATS 210 Surviving on Earth: Geologic Hazards and Society** (3) AY (Same as EVS 210)  
An introduction to the geologic processes causing floods, earthquakes, volcanoes, landslides and other natural hazards. The course includes discussion of major events in the geologic and historical record as well as future hazard potential. We will assess the risks humans face in different regions, including local hazards, our contribution to geologic hazards, and how we can minimize and cope with future events. This course is appropriate for both potential environmental sciences majors as well as students in all fields who would like to learn more about the Earth and its effects on our daily lives.
- ATS 231 Severe and Unusual Weather** (3) I, II  
Discussion of the development and occurrence of severe and unusual atmospheric phenomena. Topics include severe thunderstorms, tornadoes, hurricanes, blizzards, droughts, and heat waves.
- ATS 315 Computer Applications in Meteorology** (3) II, AY, 2005  
Computer methods used in both the operational and research environments in Atmospheric Sciences. Emphasis on the interaction between numerical and graphical techniques. Topics include floating point operations, computer display of meteorological information, software packages, and an introduction to parallel processing. **P: ATS 113 or IC.**
- ATS 438 Natural History of the Caribbean** (3) (Same as EVS 438) OD  
Study of the natural history of the Caribbean basin in a field setting. Emphasis on the geological history of the islands and the evolution of their endemic biotas. Field trips stressing identification of the local flora and avifauna. Investigation of land use and the resultant effect on the ecology of the region. **P: Dean's Office Approval; Jr. or Sr. stdg.**
- ATS 443 Environmental Geology** (4) I, AY, 2006 (Same as EVS 443)  
An introduction to physical geology designed for environmental science majors. Topics include an examination of rock types, evolution and geological times, soil development and processes, earthquakes and global tectonics. In-class laboratories will be devoted to identification of rock types, soil analysis, and determination of fossil types. **P: So. stdg. or IC.**
- ATS 460 Terrestrial Remote Sensing** (4) OD (Same as EVS 460)  
This course is an introduction to the techniques of observing the Earth from air- and space-borne instruments. We will cover basic issues of geometry and scale associated with making these measurements, electromagnetic properties of Earth surface materials, the range of instruments used to observe the Earth, and applications of satellite remote sensing to geological and environmental questions. The course will involve an independent research project utilizing remote sensing data and software.
- ATS 480 Military Weather Service Internship** (1-6) I, II, S  
Placement in a military weather service office on a part-time basis for one semester (or a comparable period during the year). Students are required to work at least 60 hours at the military weather service office. Students must apply for the internship program at least two months prior to their proposed starting date. Duties vary according to the office but may include work with forecasting, radar analysis, DHA operations, and providing information to military users. May be repeated to a limit of six semester hours, but only three hours are applicable to the major. **P: DC.**

- ATS 481 National Weather Service Internship** (1-6) I, II, S  
Placement in a National Weather Service Office. Students are required to work at least 20 hours per semester hour of credit at the National Weather Service Office. Participation is limited to a maximum of two students per semester. Departmental and Government application forms (available from the ATS Departmental Office) are required; both sets of forms will be filed with the Department Chair at least two months prior to the proposed starting date of the Internship. Duties vary according to the office but may include work with forecasting, radar analysis, AWIPS operations, NOAA radio and providing information to the public. At the end of his/her study, the student will prepare a written report which highlights the activities and training received during the Internship. Government regulations stipulate that the internship be completed within 60 days of initiation of activities at the Weather Station. May be repeated to a limit of six semester hours, but only three hours are applicable to the major. **P: ATS 113, 562, Chair approval of application package.**
- ATS 482 Atmospheric Sciences Internship with Industry** (1-6) I, II, S  
Placement with a local industry on a part time basis for one semester (or a comparable period during the year). Students are to work at least 60 hours at the worksite identified by the particular company. This may be in conjunction with local city, state, or federal government contracts at the contract work site associated with the atmospheric sciences data collection, processing, and display tasks of the date. Tasks to which the students may be assigned include such diverse activities as document development/review, testing new software on forecasting work stations, data analysis and assimilation studies, or participation at contract formal review meetings with the contracting client. May be repeated to a limit of six semester hours, but only three hours are applicable to the major. **P: DC**
- ATS 483 Topics in Mesoscale Meteorology** (1)  
Students will apply mesoscale analysis techniques that emphasize severe storm prediction, spotting and interception. Additional fees may be charged to cover expenses. This course is repeatable to a max of three credits. **P: ATS 542 and ATS 545.**
- ATS 493 Directed Independent Readings** (1-3) I, II, S  
Credit by arrangement. May be repeated to a limit of six hours. **P: DC.**
- ATS 495 Directed Independent Study** (1-3) I, II, S  
Credit by arrangement. May be repeated to a limit of six hours. **P: DC.**
- ATS 497 Directed Independent Research** (1-3) I, II, S  
A research project under the personal direction of a member of the ATS faculty. At the end of the work a written report describing the project and its outcome will be prepared; the paper will form the basis for a seminar to be presented to the department. In this manner the student will be formally introduced to scientific research methods, and provided the opportunity to refine oral and written communication skills. **P: Sr. stdg. or DC.**
- ATS 516 Computer Methods in Atmospheric Sciences** (3) II, AY, 2005  
Intermediate computer techniques currently used in atmospheric science. Emphasis on graphic methods, fundamental techniques of numerical prediction, parallel processing, and artificial intelligence. Applications of these methods to short-term forecasting. **P: ATS 315.**
- ATS 531 Operational Prediction Models** (3) II, AY, 2006  
Examination of the use of forecast models from the National Meteorological Center (ETA, GFS, MM5, NGM). Additional models from other sources will also be examined (UKMET, ECMWF, USAF, and USN). Study of model domain, resolution and formation with respect to physical processes. Model performance is described and scrutinized (with respect to systematic errors and to particular synoptic situations). Comparative diagnostics of forecast and observed fields employed to examine model behavior. **P: ATS 562 or IC.**
- ATS 532 Objective Meteorological Analysis** (3) OD  
Application of techniques and principles for temporal and spatial computer analysis of atmospheric data based on dynamical concepts, with a focus on the structure, movement, and development of weather systems. Topics include data time series, statistical inference techniques, Fourier analysis, and map projections and grid systems used in meteorology. **P: ATS 571 and computer programming.**

- ATS 533 Physical Climatology and Climate Change (3) I** (Same as EVS 533)  
This course stressed the theories and models of natural climate change and of that induced by human beings. The ethical issues of inadvertent and planned change of climate by humans will be raised. Major topics include effects of CO<sub>2</sub> warming (greenhouse effect), ozone depletion; human-induced desertification; acid rain; urban microclimates. Methods of monitoring these systems will be stressed relative to an increased world-wide need to limit or prevent human-induced climate changes.
- ATS 541 Atmospheric Diffusion, Air Pollution, and Environmental Impact Analysis (3) I, AY, 2006** (Same as EVS 541)  
Survey of the theoretical and practical aspects of diffusion, dispersion, and turbulent transport of pollutants in an atmospheric boundary layer. Includes observational and instrumentation techniques; plume models; regional pollution transport; and diffusion from point, line and area sources. Chemical and physical transformations of the pollutants, precipitation scavenging, and dry deposition are studied. Reviews Federal environmental laws, air quality standards, environmental impact assessments, ethics, and guidelines for writing environmental impact statements. **P: ATS 113 or equiv.**
- ATS 542 Radar Remote Sensing (3) I**  
The theoretical and practical aspects of weather radar. Various examples of Nexrad Radar products are presented for winter storms, elevated convection and mesoscale systems. Stress placed on the capabilities and limitations for severe storm investigation. **P: MTH 245, PHY 212 and ATS 113; or IC.**
- ATS 544 Hydrology (3) II, OD** (Same as EVS 544)  
Study of the waters of the earth, especially with relation to the effects of precipitation and evaporation upon the occurrence and character of water in streams, lakes, and on or below the land surface. In terms of hydrologic cycle, the scope of this course may be defined as that portion of the cycle from precipitation to reevaporation or return of the water to the seas. **P: ATS 113 or 231.**
- ATS 545 Mesoscale Analysis (3) II**  
Examination of the theory of convection as related to models of squall lines and thunderstorms and the application of this theory to the forecasting and analysis of sub-synoptic scale systems. Comparative aspects of numerical model forecasts of severe weather are investigated. **P: ATS 562 and 571.**
- ATS 548 Introduction to Solar-Terrestrial Environment (3) OD** (Same as EVS 548)  
Course designed to acquaint the student with the basic phenomenology associated with solar processes and activity, and the impact of these processes upon the earth and its atmosphere. Designed to familiarize the student with the concepts of upper atmospheric energetic processes and their influences upon everyday activities. **P: MTH 246 and PHY 212.**
- ATS 552 Boundary Layer Meteorology (3) AY** (Same as EVS 552)  
Structure of the boundary layer, surface energy budget, vertical profiles of temperature, humidity and wind, turbulence, Monin-Obukhov theory. Determination of surface heat and moisture fluxes. Some discussion of applications to diffusion and dispersion of substances in the atmosphere. **P: ATS 572 or equiv.**
- ATS 553 Tropical Meteorology (3) I, AY** (Same as EVS 553)  
Characteristics of the tropical atmosphere including convection, boundary layer processes, local and diurnal weather phenomena, meso-scale tropical systems, tropical storm structure, and energetics. This course relies heavily on satellite interpretation of tropical cloud systems. **P: ATS 113.**
- ATS 555 Meteorological Remote Sensing (3) II** (Same as EVS 555)  
First section of the course is devoted to meteorological interpretations of cloud fields as observed from weather satellites. Second section of the course devoted to examination of general and specific applications of remote sensing of the environment. Includes imagery from satellite, ground based, and airborne systems; data analysis and decision methods multispectral analysis and evaluation of water, terrain, mineral, forest, and soil resources. **P: ATS 113 or IC.**



- ATS 556 Introduction to Physical Oceanography (3) I, AY, 2005 (Same as EVS 556)**  
 Geomorphology of the ocean bottom; properties of sea water; salinity and temperature distributions; major ocean currents and circulations; equations of motion, horizontal wind-driven currents; thermohaline circulations; wind waves and swell.
- ATS 561 Synoptic Meteorology I (3) I**  
 Examination of weather code, plotting and map analysis. Includes a review of cyclone and frontal theory using case studies to develop diagnostic and forecasting techniques. Practical applications of air mass and frontal analysis are related to weather forecasting. **P: ATS 113 or IC.**
- ATS 562 Synoptic Meteorology II (4) II**  
 Detailed examination and use of fax charts, PCMcIDAS displays, and other tools employed in analysis and forecasting. Review of methods in short-term, medium and long-range forecasting. **P: ATS 561 or IC.**
- ATS 564 Statistical Applications in the Atmospheric Sciences (3) OD**  
 Study of the statistical distributions of scalars and vectors, sampling theory, regression, correlation, and time series. Applications to statistical forecasting and forecast verification. **P: MTH 245.**
- ATS 565 Atmospheric Circulation Systems (3) OD**  
 Examination of the general circulation of the atmosphere. Emphasis on seasonal variation in both hemispheres. Exploration of formation of anomalous circulation types with respect to anomalous boundary layer conditions. Detailed discussion of tropical-mid latitude interactions. **P: ATS 562 or IC.**
- ATS 566 Climate Theory (3) OD (Same as EVS 566)**  
 Theories of global climate and variability. Examination of climate models, including internal and external parameters and feedback mechanisms **P: ATS 113, 561.**
- ATS 570 Quantitative Methods in the Atmospheric Sciences (3)**  
 Overview of mathematical and statistical methods employed by atmospheric scientists, including a review of key calculus concepts. Topics include coordinate systems, vector operators, finite difference approximations, vector calculus, regression, filtering, hypothesis testing and key theorems. **P: MTH 246.**
- ATS 571 Dynamic Meteorology I (3) I**  
 Equations of motion and thermodynamics will be vigorously derived and applied to the atmosphere. Topics include thermodynamics of dry and moist air, hydrostatic and hypsometric approximations, geostrophic and gradient wind balance, mass continuity, and vorticity. **P: PHY 212 and MTH 246 and ATS 113; or IC.**
- ATS 572 Dynamic Meteorology II (3) II**  
 Concepts presented in ATS 571 will be further developed and applied to the following topics: barotropic and baroclinic instability, atmospheric oscillations, quasi-geostrophic theory, and simple numerical modeling. **P: ATS 571.**
- ATS 573 Cloud Physics and Dynamics (3) II (Same as EVS 573)**  
 Thermodynamic processes which control the development and growth of clouds. Relationship between atmospheric properties and cloud structure. Distribution of condensation nuclei, water droplet spectra. Initiation and growth of cloud hydrometers. Structure of severe storms, radiative effects of clouds. **P: ATS 571.**
- ATS 574 Stratospheric Dynamics (3) OD**  
 Study of the principles governing atmospheric motions in the stratosphere. Includes a brief review of chemical processes, radiative effects, and the resulting thermal structures that govern the mean stratospheric circulation; forcing mechanisms and conditions for wave generation in the stratosphere; discussions of sudden warmings, quasi-biennial and semiannual oscillations, and tropical wave phenomena in the stratosphere. **P: ATS 571.**
- ATS 575 Environmental Measurements Practicum (3) OD**  
 Course designed to acquaint the student with the basic phenomenology associated with solar processes and activity, and the impact of these processes upon the earth and its atmosphere. Designed to familiarize the student with the concepts of upper atmospheric energetic processes and their influences upon everyday activities. **P: MTH 246 and PHY 212.**

Graduate-level courses in Atmospheric Sciences are listed in the Graduate School issue of the Bulletin.

# BIOLOGY

*For the Biology Program of Study, please refer to page 116.*

- BIO 150 Biotechnology and Society (3)**  
Introduction to the basic principles and applications of recombinant DNA technology. Students can expect to learn about the implications of this technology on agriculture, medicine, and approaches to solving crimes and environmental problems. We will also explore the ethics, legal issues, and societal impacts of the implementation of this technology. 3R.
- BIO 123 Microbiology for Health Professionals (3)**  
Microbiology for Health Professionals is an introductory course covering the biology of microorganisms that are agents of infectious disease. Practical information about microorganisms will be presented that is critical to understanding patient care and disease-prevention strategies. A survey of bacterial and viral disease, antimicrobial chemotherapy options, the response of the body to infection, and concepts in epidemiology will all be presented. 3R.
- BIO 141 Charles Darwin: Life and Impact (3) I, AY**  
The life and work of Darwin with emphasis on the importance of his ideas in modern biological science, the development of his evolutionary theories, and the reciprocal influence of Victorian society and his work. Study of Darwin's writings is used to exemplify the nature of scientific investigation and the role of the scientist in society. No formal biological background is required. 3R.
- BIO 149 Human Biology (3) II**  
Survey course designed for nonmajors who have only a high school background in the sciences. Covers the major areas of human structure, function, nutrition and genetics. Examination of both the normal condition and examples of disorders in this condition. Discussion of related topics of current interest. This course may not be taken for credit toward the Biology major. 3R.
- BIO 150 Biotechnology and Society (3)**  
Introduction to the basic principles and applications of recombinant DNA technology. Students can expect to learn about the implications of this technology on agriculture, medicine, and approaches to solving crimes and environmental problems. We will also explore the ethics, legal issues, and societal impacts of the implementation of this technology.
- BIO 211 General Biology: Molecular and Cellular (4) I, S**  
Introduces the conceptual bases of biology and presents the molecular and cellular aspects of metabolism, genetics, and other selected systems. Course includes lecture and laboratory. Note: The prerequisite for BIO 211 is a one-year high-school chemistry course of sufficient depth and rigor to enable the student to participate in the study of the molecular aspects of biology. 3R, 3L.
- BIO 212 General Biology: Organismal and Population (4) II, S**  
Organismal and population biology with emphasis on organismal diversity, structural and functional strategies of organisms, ecological and behavioral relationships, and evolutionary mechanisms. The diversity of adaptive specialization based on the fundamental unity of life is the theme of the course. Course includes lecture and laboratory. 3R, 3L.
- BIO 317 Genetics (3) I, II, S (OD)**  
Science of heredity and variation. Basic principles of Mendelian genetics, cytogenetics, molecular genetics, human genetics and evolution are examined. 3R. **P:** BIO 211 and 212. **P or CO:** CHM 205/206, CHM 285.
- BIO 318 Genetics Laboratory (1) II**  
Laboratory projects designed to illustrate basic genetic principles will be conducted with the aid of bacteria, fungi, and *Drosophila* as experimental organisms. 3L. **P or CO:** BIO 317.
- BIO 333 Vertebrate Comparative Anatomy (4) I, S (OD)**  
Lecture and laboratory study of the comparative morphology of representative members of the phylum Chordata. Lectures incorporate the developmental and evolutionary bases of anatomy. 3R, 3L. **P:** BIO 211 and 212.

- BIO 335 Zoology (4) II, S (OD) (Same as EVS 335)**  
Biological concepts and principles exemplified by both invertebrates and vertebrates with emphasis on animal diversity, morphology, evolution, and ecological relationships. 3R, 3L. **P: BIO 211 and 212.**
- BIO 341 General Botany (4) II (Same as EVS 341)**  
Modern biological concepts and principles exemplified by the plant kingdom with emphasis on plant diversity, taxonomy, and evolution. 3R, 3L. **P: BIO 211 and 212.**
- BIO 351 Microbiology (4) I (Same as EVS 351)**  
Microbiology is the study of organisms too small to be seen with the naked eye. Despite their small size, these organisms are ubiquitous and play important roles in human health, industry, and the functioning of ecosystems. This course is designed to cover a wide range of material in lecture and through laboratory exercises, introducing students to the breadth of microbial diversity and physiology, as well as the basic techniques used in microbiology. 3R, 3L. **P: BIO 211 and 212 .**
- BIO 362 Cell Structure and Function (3) II, S**  
Emphasizes the fundamental importance and experimental underpinnings of knowledge in cell biology. The course consists of four segments; 1) common techniques in cell biology research, 2) basic principles of cell structure and function including membranes, vesicular transport, protein sorting, and the cytoskeleton, 3) how cells multiply, assemble into tissues, and interact with their environment, and 4) cell motility, the immune response, and cancer.3R. **P: BIO 211.**
- BIO 385 The Ecology, Geography and Health of Lakes (4) S, AY (Same as EVS 385)**  
A summer field course that examines lakes in the North Central Rocky Mountains regions of the United States. This course is a combination of lectures and field and laboratory studies of the physical, chemical and biological properties of lakes in a landscape context. The effects of human impacts on lake ecology and ecosystem health are emphasized. The course includes field work at lakes and regional field stations in northern Iowa (Iowa Lakeside Laboratory on West Okoboji Lake), the Boundary Waters and Lake Superior in Minnesota, the hyperalkaline Western Nebraska Sandhills, and alpine lakes in the Colorado Rockies (University of Colorado's Mountain Research Station at Niwot Ridge). **P: IC.**
- BIO 390 Environmental Science (3) II (Same as EVS 390)**  
Course presents a balanced, scientific approach to the study of the environment and stresses the application of ecological concepts within a systems perspective. Topics include ecological concepts, population principles, endangered species and habitats, resources, air and water pollution, environmental health, and global perspectives.3R. **P: BIO 211 and 212 or CHM 205/206.**
- BIO 401 Biometry (4) II (Same as EVS 401)**  
Introduction to measurement theory as applied to biological studies. Data acquisition, analysis, and display procedures. Introductory statistical methods emphasizing sampling procedures, frequency distributions, measure of central tendency, analysis of regression lines, log dose-response curves (graded and quantal), bioassay. Lectures supplemented by problem-solving sessions. (Qualifies as laboratory course). 3R, 3L. **P: BIO 211 and 212.**
- BIO 417 Molecular Biology Lecture (3) I, S (OD)**  
Description of contemporary concepts and techniques in molecular biology. Topics include gene structure, coding, regulation, protein synthesis, mutation, recombination, recombinant DNA technology, transposable elements and chromosome structure. 3R. **P: BIO 317.**
- BIO 419 Molecular Biology Laboratory (2) II**  
Laboratory activities using contemporary methods of genomic inquiry. Emphasis on fundamental aspects of gene structure and function. 3L. **P: BIO 317 or 417.**
- BIO 432 Introduction to Immunology (3) I**  
This lecture course is designed to present the basic principles and concepts of immunology. Topics such as organization of the immune system, evolution of the immune system, and cellular and molecular mechanisms used by the immune system to protect organisms from disease are discussed in detail. Additionally, course material examines the practical application of immunological experimental advances in basic and medical science. 3R. **P: BIO 211 and 212 and one of the following: BIO 317 or BIO 362 or BIO 417.**

- BIO 435 Field Biology in the Southeastern United States** (4) S, AY (Same as EVS 435)  
Three-week field trip. Exploration of natural communities in the Blue Ridge mountains of North Carolina, the South Carolina Coastal Plain, the Georgia coast and barrier islands, and the tropical environments of southern Florida. Emphasis on organisms and their adaptation to the environment, field collection techniques, and ecological relationships. Students will work from and stay in established biological field stations at Highlands, North Carolina, Sapelo Island, Georgia, Lake Placid, Florida, and Key Largo, Florida. (Qualifies as a laboratory course.) **P: One organismal-level or field course in biology or IC.**
- BIO 440 Field Biology of the Desert Southwest** (4) S (OD) (Same as EVS 440)  
A field course designed to allow students to study faunal and floral desert adaptations. Students spend three weeks living at a field station in San Carlos, Mexico on the Sea of Cortez. Participants obtain and analyze field data to determine how small, ectothermic vertebrates utilize external heat sources in order to thermoregulate, culminating in a paper written while at the field station. Bioinventory activities include collecting, preserving and identifying museum quality specimens; trips to nearby Nacapule Canyon, night time and day time visits to local tide pools, snorkeling trips including Isla San Pedro and its sea lion colonies. Participating students should be prepared for warm, sunny weather and time both in and out of the water, kayaking and sailing. Qualifies as a population level biology course and as a laboratory course and is now Certified Writing. **P: BIO 212, and IC.**
- BIO 449 Animal Physiology** (3) I, II (Same as EVS 449)  
A study of the functions of animals from the cellular to the organ-systems level with emphasis on vertebrate systems physiology. 3R. **P: BIO 211 and 212; Jr. stdg.**
- BIO 450 Animal Physiology Laboratory** (1) I (Same as EVS 450)  
Laboratory exercises designed to illustrate several physiological processes in animals, including cellular and whole animal metabolism, heart and muscle function, osmoregulation and responses to thyroxine and cold acclimation. 3L. **P or CO: BIO 449.**
- BIO 455 Biology of the Protists** (4) I  
Introduction to the morphologies and survival strategies of the protists (eukaryotic organisms without multiple tissues). Includes parasitic forms of medical importance and both parasitic and free-living forms of scientific, economic, and ecological importance. 3R. **P: BIO 211 and 212.**
- BIO 467 Developmental Biology (Embryology)** (4) I  
Animal development with emphasis on the higher vertebrates. Gametogenesis, cleavage patterns and basic body plans, organ system formation, embryo-maternal relationships. Control of growth, differentiation, and morphogenesis. 3R, 3L. **P: BIO 211 and 212.**
- BIO 481 Terrestrial Ecology** (4) I (Same as EVS 481)  
Introduction to the interactions of organisms and the environment, especially the biology of populations, communities, and ecosystems. Individual adaptations, the nature of the environment, population dynamics, and community organization are stressed. Laboratory exercises include field trips to terrestrial habitats. 3R, 3L. **P: BIO 211 and 212.**
- BIO 483 Vertebrate Natural History Lecture** (3) II, S (OD) (Same as EVS 483)  
Lecture series designed to provide students with a modern overview of vertebrate diversity. Lectures encompass ancestry, major adaptive shifts between classes of vertebrates, geographic distribution based on physiological limits, specialized feeding and locomotor modes, courtship patterns, reproductive strategies, and conservation issues. Recommended as useful prior to enrollment in BIO 440 (Field Biology of the Desert Southwest) and for students seeking a general understanding of vertebrate life, or those who are interested in teaching biological sciences. 3R. **P: BIO 211 and 212.**
- BIO 484 Vertebrate Natural History Laboratory** (1) II, S (OD) (Same as EVS 484)  
Laboratory exercises that will provide experience in the following areas: dissection of representatives of each major vertebrate class with emphasis on the diagnostic differences between groups; identification and preservation of vertebrate specimens. Field trips are available on a limited basis. 3L. **P or CO: BIO 483.**
- BIO 485 Marine and Freshwater Ecology** (3) I (Same as EVS 485)  
An introduction to the community structure, biological production, and physical and chemical properties of aquatic ecosystems. The major features of water columns, benthic substrates, and lotic zones will be reviewed and compared. 3R. **P: BIO 211 and 212.**

- BIO 486 Freshwater Ecology Laboratory (1) I** (Same as EVS 486)  
Introduction to methods for analyzing lake, stream, and wetland habitats. Exercises will examine physical and chemical properties, biological production and food chains, and water quality of freshwater ecosystems. 3L. **CO: BIO 211/212. P or CO: BIO 485 or IC.**
- BIO 487 Marine Ecology Laboratory (2) II** (Same as EVS 487)  
Direct observation of marine coastal habitats (reefs, sea grass beds, mangrove forests, rocky intertidal zones, and offshore waters) at Roatan Island, Honduras. Exercises in the field and campus laboratory sessions will examine physical and chemical properties; marine organisms, and community structure and productivity of marine ecosystems. 3L. **P: BIO 211 and 212; CO: BIO 485 or IC.**
- BIO 490 Seminar in Undergraduate Biology Instruction (1)**  
Required of all undergraduate Teaching Assistants in those semesters in which they are teaching. Course provides instruction in both course content and its effective communication. Emphasis on laboratory and field skills, preparation of examinations, classroom supervision, and student evaluation. 1R. Course may be repeated up to a maximum of four times. **P: IC.**
- BIO 493 Directed Independent Readings (1-3) I, II, S**  
Assigned readings in the student's area of interest. Course is only an addition to and not a substitution for any portion of the major requirement. No more than 12 semester hours of credit may be accrued in any combination of BIO 493, 495, and 497. **P: Sr. stdg. or IC.**
- BIO 495 Directed Independent Study (1-3) I, II, S**  
A program of independent study with emphasis on activities other than laboratory or field research. (Examples include library research or special course attendance). Course is only an addition to and not a substitution for any portion of the major requirement. 2-4 C and/or L. No more than 12 semester hours of credit may be accrued in any combination of BIO 493, 495, and 497. **P: Sr. stdg. or IC.**
- BIO 497 Directed Independent Research (1-3) I, II, S**  
A program of independent study with emphasis on laboratory or field research. Course is only an addition to and not a substitution for any portion of the major requirement. No more than 12 semester hours of credit may be accrued in any combination of BIO 493, 495, and 497. **P: Sr. stdg. or IC.**
- BIO 512 Microbial Ecology (3) II**  
Microbes are ubiquitous, and due to their physiological breadth are involved intimately with nearly all ecosystem processes, including decomposition and plant growth. The purpose of this course is to explore the roles of microbes in soil, aquatic, and human ecology. We will also explore the origins of life on the planet and how microbial activity has modified the global environment. We will discuss the application of microbiology to issues in biotechnology and biomediation. The current literature will be explored through in-class discussions and a comprehensive written assignment. Two Saturday field trips will allow students to compare the role of microbes in natural and human-dominated ecosystems. **P: BIO 211, 212, 351.**
- BIO 513 Microbial Ecology Laboratory (1) II** (Same as EVS 513)  
Microbial Ecology Laboratory will explore the ubiquitous nature of microbial life in common and functionally important habitats such as soils, and in extreme and unusual habitats, such as anoxic sediments and alkaline lakes. The diverse roles played by microbes in biogeochemical cycling will be the central theme of course activities. Trips to field locations including freshwater lakes and native grasslands will be combined with laboratory skills building. Methods for sampling microbial communities, assessment of microbial activity, enrichment culture, and aseptic technique will be emphasized. 3L. **P: BIO 211, 212. P or CO: BIO 512.**
- BIO 517 Current Topics in Genetics (3) II**  
A lecture/discussion course which examines contemporary issues in genetics. Topics include, but are not limited to molecular and genetic aspects of autoimmune disease, aging, behavior, cancer, development, evolution, genomics, proteomics, etc. In addition, methods which accompany such studies, such as bioinformatics and *in silico* biology, will also be examined. Both faculty and students are involved in presenting information. 3R. **P: BIO 317.**
- BIO 523 Environmental Toxicology (3) II** (Same as EVS 523)  
Principles of environmental tolerance, bioenergetics and nutrition, homeostasis, and toxicology and disease will be developed and related to the organismal, population and community levels and to comparative responses to environmental disturbance. The course uses a reading/discussion format. 3R. **P: BIO 211 and 212.**

- BIO 532 Current Topics in Cellular and Molecular Biology (3) II**  
Molecular mechanisms controlling the growth and differentiation of eukaryotic cells, including gene expression, cell growth and division, signal transduction, development, germ cells, immunity, and cancer. 3R. **P or CO: Any two of these courses: BIO 317, BIO 362, BIO 417, CHM 381.**
- BIO 549 Environmental Physiology (3) II (Same as EVS 549)**  
Impact of environmental changes and environmental extremes on animals and their physiological mechanisms. Examines primarily vertebrates and their responses to variations in temperature, pressure, and salinity. Basic physiological principles associated with each adaptive response covered in lecture and reading assignments. 3R. **P: BIO 333 or 335 or BIO 483 or BIO 449.**
- BIO 551 Current Topics in Microbiology (3)**  
A lecture/discussion course focused on current issues in the field of microbiology. Topics may include but are not limited to the molecular and genetic aspects of host-microbe interactions, microbial ecology, microbial biotechnology, or bio-defense. We will focus on model microbial systems to illustrate the basic strategies bacteria use to accomplish specific requirements, and through paper discussions students will also be exposed to the latest research trends and some of the current techniques used in genetics and molecular biology. 3R. **P: BIO 351, and one of the following: BIO 317, BIO 362 or BIO 417.**
- BIO 561 Entomology (4) I (Same as EVS 561)**  
Introduction to insect biology with emphasis on the major insect groups. Anatomy, physiology, and behavior of insects and their ecological, agricultural, and medical importance. 3R, 3L. **P: BIO 211 and 212.**
- BIO 562 Introduction to Neurobiology (3) I**  
Introduction to the fundamental concepts of comparative neurobiology and the neural basis of behavior. Topics covered include the cell biology of the neuron, neural systems, sensory systems, motor systems, sensory-motor integration and higher brain functions, the interactions between hormones, brain and behavior, and human neurobiology. Lectures emphasize the comparative approach of studying the structure and function of nervous systems by using both invertebrate and vertebrate model systems to illustrate how the brain controls behavior. 3R. **P: BIO 211 and BIO 212 and one of the following, BIO 333 or BIO 449.**
- BIO 563 Introduction to Neurobiology Laboratory (2) I**  
Introduction to neurobiological and behavioral research methods using experimental techniques to understand functional aspects of neurophysiology and the neural basis of behavior. 3L. **P or CO: BIO 562.**
- BIO 567 Cellular and Developmental Neuroscience (3)**  
This course will provide an introduction to processes regulating the development of the mammalian central nervous system. Attention will be given to how classic research findings in the field of developmental neuroscience have formed the modern understanding of the formation, functioning, and repair of the central nervous system. 3R. **P: BIO 211 and 212 and one of the following: BIO 449, BIO 362, BIO 467.**
- BIO 571 Animal Behavior (3) I, S (Same as EVS 571)**  
Evolutionary aspects of animal behavior, including physiological bases of behavior, social behavior, behavioral ecology and genetics of behavior. 3R. **P: BIO 211 and 212.**
- BIO 572 Animal Behavior Laboratory (2) II (Same as EVS 572)**  
Introduction to animal behavior research methods using structured observations and experiments in laboratory and field settings. 3L. **P: BIO 571.**
- BIO 581 Evolution (4) I, S (OD) (Same as EVS 581)**  
Lectures and discussion designed to provide junior and senior students with a broad understanding of the science of evolutionary biology. Organized in three parts, each takes a chronological approach: (A) evolutionary theory, (B) mechanisms of evolution, (C) the implications and consequences of theory and mechanism; and as part of both the lecture and laboratory experience in (C, above) topics in evolutionary medicine will be covered. Laboratory sessions include computer modeling exercises to illustrate the mechanisms of evolutionary changes, an excellent film series, discussion opportunities designed to explore in more depth questions and topics associated with speciation, biodiversity and human evolution as well as a review session prior to each exam. 3R, 3L. **P: One upper-division BIO course or Jr. stdg.**

## BIOMEDICAL SCIENCES

Courses offered by the Department of Biomedical Sciences of the School of Medicine.

- BMS 111 Basic Human Anatomy (4) I**  
Designed to provide nursing students with a basic knowledge of human anatomy. Lecture topics range from anatomical terminology to comprehensive overviews of the individual organ systems, including aspects of gross anatomy, histology, and neuroanatomy. 4R. **P: Registration in Nursing Program or IC.**
- BMS 301 Biochemistry (4) I**  
An introductory course designed for students in the School of Pharmacy and Health Professions. Undergraduate majors from other disciplines are welcome. Topics concerning structure, function and metabolism of important biomolecules, biologically active peptides, detoxification and molecular biology will be surveyed. **P: CHM 323 and 324 or equiv.**
- BMS 303 Physiology (4) II**  
Provides Nursing and other Health Profession students with a basic knowledge of human physiology. Presents an overview of the function of the major organ systems using lectures and demonstrations. 4R. **P: NUR major or IC.**
- BMS 311 Basic Human Anatomy (4) I**  
Course designed to provide pre-professional students with an introduction to human gross anatomy, histology, and neuroanatomy. A systemic approach is used. Dissected cadaver specimens and anatomical models are available as learning aids. **P: IC.**
- BMS 404 Human Physiology (4) II**  
Designed to provide pharmacy, occupational therapy and physical therapy students with a knowledge of human physiology. The function of the major organ systems is covered in a series of lectures and discussions. 5R. **P: Registration in the pharmacy, occupational therapy or physical therapy programs or IC.**
- BMS 521 Principles of Biochemistry (4) II**  
Fundamental principles of structural biochemistry, enzymology, metabolism and molecular biology. **P: CHM 323 and 324 or equiv.; Sr. or Gr. stdg.; Jr. stdg. only with IC.**
- BMS 540 Nutrition: Facts and Fads (2) II**  
A nutrition course designed for people with health care interests emphasizing proper nutrition, omnivorous diets, and basic food science concepts. The inadequacies of food faddism and identification of bogus claims and quackery will also be considered. **P: Advanced BIO course or a BMS course or IC.**

## BLACK STUDIES

*For the Black Studies Program of Study, please refer to page 117.*

- BKS 106 The African World (3) I, II (Same as AFS 106, HIS 106)**  
A survey of developments in Africa from the 15th century to the present emphasizing the decline and reemergence of African independence, the creation of the African diaspora, and developments in the post-colonial period. **P: HIS 101.**
- BKS 309 The Urban Social System (3) I (Same as SOC 309)**  
Examination of the process of urbanization as it affects the lives and institutions of local populations and incorporates them into much larger national and international systems. **P: So. stdg.**
- BKS 311 Politics of Africa (3) II (Same as AFS 311, PLS 311)**  
Introduction to politics of sub-Saharan Africa. Covers traditional African cultures, societies and politics; independence movements; and post-colonial politics. Discusses political parties, military interventionism, ethnic conflict, development policy and democratic reform. **P: So. stdg.**
- BKS 341 American Cultural Minorities (3) I (Same as AFS 341, AMS 341, ANT 341, SOC 341)**  
Determinants and consequences of prejudice and discrimination; race, ethnocentrism, religious conflict, class structure. Consideration also given to proposed strategies for reducing inter-group tension. **P: So. stdg.**

- BKS 342 Peoples and Cultures of Sub-Saharan Africa** (3) AY (Same as AFS 342, ANT 342)  
An exploration of the people and places of Africa south of the Sahara from a variety of anthropological perspectives. It is an introduction to the cultures of Africa and a history of how those cultures have been perceived and interpreted. **P: So. stdg.**
- BKS 347 Peoples and Cultures of Africa and the Middle East** (1) AY (Same as AFS 347, ANT 347)  
A study of the cultures of North Africa and the Middle East. Includes an analysis of the culture history, environmental, social and ideological adaptations, and explores the cultural changes of these predominantly Islamic cultures. **P: So. stdg.**
- BKS 356 Christianity in Africa** (3) OD (Same as AFS 356, THL 356)  
Introduction to religion among Africans and Africans in the diaspora. African religious concepts of time, creation, the place of humans in creation, initiation rites, marriage, procreation, death. The relationship between the ecclesial and non-ecclesial dimensions; development of the Black sacred cosmos, ritual, music, folk tradition and performance practice.
- BKS 367 The African-American Experience** (3) AY (Same as HIS 367)  
Slavery, emancipation, "separate but equal", and the drive for full equality. **P: So. stdg.**
- BKS 372 Equality, Minorities, and Public Policy** (3) II AY (Same as AMS 372, HIS 372, PLS 372)  
Incorporates continuing dialogues between a historian and a political scientist. Exploration of political processes whereby minorities have influenced the formulation and implementation of policy and governmental responses to demands for equal treatment. **P: So. stdg.**
- BKS 384 Black History Through Literature** (3) OD (Same as HIS 384)  
History of Americans of African descent as found in journals, novels, and "studies." **P: So. stdg.**
- BKS 388 Origins of Modern Africa** (3) AY (Same as AFS 388, HIS 388)  
Examination of the European impact on Africans and their institutions. **P: So. stdg.**
- BKS 390 Introduction to African Literature** (3) OD (Same as AFS 390, ENG 390)  
Contemporary African literature. Relationship between African literature and society, emergence of national and cross-African literatures, issues of cultural conflict, language and oral tradition, and other topics.
- BKS 393 African-American Literature** (3) II (Same as AMS 393, ENG 393)  
A survey of representative African American literature from its inception to the present. The particular representative authors and genres and the historical focus of the course may differ each semester. **P: ENG 120, 121, 150.**
- BKS 396 Seminar in Black Studies** (3) OD  
Topical seminar with topics changing in different semesters. Examination of particular ideas, developments, and issues of relevance to Africa and the African diaspora. Topics in different semesters might include detailed examination of justice and ethnicity, politics and ethnicity, comparative slave systems, slave narratives, or colonial rule in Africa and the Caribbean. **P: So. stdg.**
- BKS 398 Literature of Francophone Africa** (3) (Same as AFS 398, ENG 398)  
Sample of representative Francophone African literature. Nature and functions of this literature, relation between it and society. Impact of non-Western cultural context on Western literary genres.
- BKS 428 (478) Multicultural Issues in Psychology** (3) I, II (Same as PSY 428)  
Explores gender, ethnic, and cultural factors that influence the beliefs, values, behaviors, and experiences of individuals. Provides a fundamental understanding of one's own culture and behavior through exploration of a variety of cultures. **P: PSY 111 or PSY 112.**
- BKS 470 Seminar in Film Studies: African and African American** (3) (Same as AFS 470, ENG 470, COM 470)  
Topical seminar with topics changing in different semesters. Examination of particular areas of film and popular culture. Topics in different semesters might include detailed examination of a film genre (e.g., the western, science fiction, detective films), or film and culture studies (e.g., women and film; film and developing nations). May be repeated for credit to a limit of six hours.



- BKS 482 Race in America: Idea and Reality** (3) OD (Same as AMS 482, HIS 482, PHL 482, PLS 482, SRP 482)  
An examination of the idea and reality of race during key phases of U.S. history, with an emphasis on the contemporary situation. To understand the multiple meanings and experiences of race, the course draws on sources from science, literature, law, and philosophy. **P: Sr. stdg.**
- BKS 484 Nationalist Movements in Colonial Africa** (3) II (Same as AFS 484, HIS 484)  
Examination of the social institutions of black Africa; the roles and meaning of the "tribe", ethnicity and the family. **P: So. stdg.**
- BKS 485 Society and Belief Systems in Africa** (3) II (Same as AFS 485, HIS 485)  
History of Africa south of the Sahara and west of the Cameroons Highlands, African cultural traditions, contact with Islam and the West, the State building, the European invasions, the colonial period, and reemergent states. **P: So. stdg.**
- BKS 487 History of West Africa** (3) OD (Same as AFS 487, HIS 487)  
History of Africa south of the Sahara and west of the Cameroons Highlands, African cultural traditions, contact with Islam and the West, the State building, the European invasions, the colonial period, and reemergent states. **P: So. stdg.**
- BKS 489 Southern Africa: The Politics of Race** (3) OD (Same as AFS 489, HIS 489)  
Examination of the historical development of the social and political structures of modern Southern Africa. Primary focus on South Africa, Rhodesia-Zimbabwe, and Namibia. Analysis of the place of "race" in national policies. Includes apartheid, black nationalism, decolonization, guided democracy, and the interrelationship between economic developments and the social and political systems. **P: So. stdg**
- BKS 493 Directed Independent Readings** (3) OD  
Course designed to allow an individual student with an interest in a particular area to pursue it under the direction of a willing faculty member. **P: BKS Coordinator's consent.**
- BKS 497 Directed Independent Research** (1-3) OD  
Independent research course. **P: IC.**

## *BUSINESS*

*Professor Goss; Associate Professors Duckworth, Fitzsimmons, Gustafson, Hoh, Kracher, Purcell, Wells, and York; Assistant Professors Knudsen and McNary; Professor Emeritus Gleason.*

- BUS 201 Legal Environment of Business** (3) I, II  
Focuses on laws that affect managerial action. Introduction to the traditional sources of law, the U.S. Constitution and its Amendments; the basic characteristics of the U.S. legal system, the law of contracts, torts, and property, and understanding of the various business entitlements, their creation, operation, and termination; a basic understanding of the administrative agency process, antitrust, employer-employee relations, laws against discrimination, consumer protection, environmental laws, and the myriad of other laws that affect business action and changing public policy regarding law. **P: So. stdg.**
- BUS 229 Statistical Analysis** (4) I, II, S  
Use of descriptive and inferential statistical methods in the analysis of business and economic data. Topics include probability distributions, confidence intervals, tests of hypothesis, multiple regression and correlation, time series analysis and index numbers, and decision analysis. **P: MTH 141 or 245; MTH 201.**
- BUS 301 Business Law** (3) II  
Detailed analysis of specific areas of law that most impact the operation and management of business enterprises. Course serves as an introduction to the study of law as a discipline and as a preparation for those students planning to sit for the CPA examination. **P: BUS 201; Jr. stdg.**
- BUS 311 Entrepreneurship and Small Business Management** (3) I  
This course offers a framework for understanding the entrepreneurial process and exposes students to most problems and issues faced by entrepreneurs who start new businesses. Focuses on how to identify and evaluate market opportunities, develop business plans, assess and obtain the required resources, and manage the growth of the new venture. Lectures are supplemented by case studies field projects, and guest speakers. **P: MKT 319 and FIN 301, or IC.**

- BUS 321 Mock Trial Lecture (2)**  
Exploration and analysis of the presentation of a Mock Trial. Course content changes from year to year. In even-numbered years, the cases presented are civil cases. In odd-numbered years, the cases presented are criminal cases. Some travel required. **P: IC.**
- BUS 322 Mock Trial Practicum (1)**  
Limited to students who want to develop a more in-depth knowledge of Mock Trial beyond the first course. Some travel required. **P: BUS 321 or IC.**
- BUS 356 Business Ethics (3) I, II, S**  
Study of the principles and practice of good moral behavior by the business community. Lectures are supplemented by case discussion, community service, and other experiential activities that directly involve students in ethical and socially responsible behavior. **P: PHL 250; Jr. stdg.**
- BUS 366 Business Internships (3) I, II, S**  
This course is designed to give credit to students for major-related significant practical business experience. The internship should allow the students to apply concepts and technical skills learned in the classroom to a real work setting. Students must work 150 hours during a semester; write a final paper describing the learning value of their internship; and participate in an end-of-semester synthesis session. The student's internship employment must be secured before registering for the class. The course is graded on a satisfactory/unsatisfactory basis and can be taken only once. **P: 2nd Sem. Jr. or Higher stdg. in the College of Business Administration.**
- BUS 471 Strategic Management (3) I, II**  
Course utilizes a series of actual business cases concerning the major areas of strategic planning. Students analyze the cases to determine the current management style and organization strategy. The analyses are used to make recommendations for changes in managerial expertise, corporate and line-of-business strategy, and organization structure. **P: Bus. Admin. Sr. stdg; FIN 301; MGT 301; MKT 319.**
- BUS 479 Seminar in Business (2-3) I or II**  
Exploration and analysis of selected problems, topics, and issues in today's business environment. Course content changes from semester to semester. This course is repeatable as long as topic differs (12 credits). **P: Jr. stdg.**
- BUS 493 Directed Independent Readings (1-3) OD**  
Limited to students who want to develop a more in-depth knowledge of a subject beyond the regular course coverage and who have a GPA of 3.0 or better. Sr. stdg.; DC & Dean's approval. May be repeated for credit to a limit of six hours.
- BUS 497 Directed Independent Research (1-3) OD**  
Supervised independent research on topics beyond the regular course coverage. Course is limited to students who have a GPA of 3.0 or better. May be repeated for credit to a limit of six hours. **P: Sr. stdg; DC and Dean's approval.**

# CHEMISTRY

*For the Chemistry Program of Study, please refer to page 118.*

**CHM 105 Introductory Chemistry (3) II**

A one-semester introduction to the concepts and theories basic to the science of chemistry. Recommended as an entry-level course for those who have had no high school chemistry or who consider their high school preparation in chemistry weak. Topics covered include problem solving, scientific method, measurements, calculations, matter, energy, the periodic table, atomic theory, chemical nomenclature, chemical reactions, chemical composition, mole calculations, ionic and covalent bonding.

**CHM 111 Fundamentals of General Chemistry (3) I**

A one-semester survey of general chemistry for nursing and other allied health majors. Topics covered include electronic structure and periodicity, molecular structure, chemical reactions, states of matter, acid-base chemistry, and nuclear chemistry.

**CHM 112 Fundamentals of Biological Chemistry (3) II**

Survey of organic and biological chemistry for nursing and other allied health majors. Includes the study of organic functional groups and reactivity, plus the chemistry of biomolecules such as proteins, carbohydrates, lipids, and nucleic acids. **P: CHM 111 or equivalent.**

**CHM 113 Fundamentals of Chemistry Laboratory (1) II**

Laboratory course to be taken in conjunction with CHM 112 which demonstrates basic chemical tools and illustrates basic chemical principles.

**CHM 201 Chemistry of Consumer Products (3)**

Course in chemistry of consumer products. Topics include basic concepts of chemistry, molecular structure and chemical properties as related to consumer products including foods, paints, cleaning products, lawn and garden products, preservatives, petroleum products, plastics and materials and cosmetics.

**CHM 203 General Chemistry I (3) I, S**

Course in introductory chemistry which includes basic concepts: atomic structure, the mole, stoichiometry, gas laws, bonding theories, molecular structure and properties, thermochemistry, and some common reactions. This is the first half of a two semester sequence. **CO: CHM 204.**

**CHM 204 General Chemistry Laboratory I (1) I, S**

Laboratory portion of Chemistry 203. Experiments relevant to the content of CHM 203 are performed. **CO: CHM 203.**

**CHM 205 General Chemistry II (3) II, S**

Continuation of CHM 203. Concepts and theories covered include thermodynamics, kinetics, chemical equilibria, and applications of equilibrium theory to solubility, acids and bases, oxidation-reduction, and coordination chemistry. **P: CHM 203. CO: CHM 206.**

**CHM 206 General Chemistry Laboratory II (1) II, S**

Laboratory portion of Chemistry 205. Experiments relevant to the content of CHM 205 are performed. **P: CHM 203, CHM 204. CO: CHM 205.**

**CHM 215 Natural Sciences I (4) II**

Examination of fundamental concepts from the natural sciences with primary emphasis on conceptual understanding. Topics include: units of measure, scientific method, particle nature of matter, density, velocity/acceleration, force/work, Newton's Laws, energy, pressure, properties of gases, liquids and solids. Integrated laboratory involves basic investigations of these concepts. **P: EDU 103.**

**CHM 216 Natural Sciences II (4) II**

Examination of fundamental concepts from the natural sciences with primary emphasis on conceptual understanding. Topics include: units of measure, scientific method, properties of solutions, chemical reactions, chemical analysis, pendulum motion, light, sound, electricity and magnetism. Integrated laboratory involves basic investigations of these concepts. **P: EDU 103.**

- CHM 285 Advanced General Chemistry II (3) II**  
A second-semester general chemistry course designed for potential chemistry majors and for those students interested in the health sciences who want an advanced treatment of general chemistry topics. The course will focus on kinetics, thermodynamics, and expressions of solution equilibria with applications to quantitative chemical analysis. The approach will be from a conceptual understanding of solution chemistry leading into a quantitative treatment of solution phenomena. **P: CHM 203. CO: CHM 286.**
- CHM 286 Chemical Analysis Laboratory (2) II**  
A laboratory-based course covering the theories and methods used in classical chemical analysis. Topics include statistical methods for evaluating and interpreting data, theory of chemical analysis and sources of error, and experiments based upon the principles of stoichiometry and equilibrium as applied to titration, precipitation, electrochemistry, and spectroscopy. One hour of recitation and three hours of laboratory per week. **P: CHM 203; CHM 204. CO: CHM 285.**
- CHM 297 Directed Research (1-2) I, II, S**  
Participation in a research project under the direction of a member of the faculty. **P: IC, DC.**
- CHM 315 Quantitative Analysis (4) I**  
An integrated lecture and laboratory course that presents the theories and chemical methods for solving a variety of real problems in chemical analysis. Topics covered include: statistical methods for evaluating and interpreting data, sources of error in chemical analysis, principles of stoichiometry and equilibrium as applied to precipitation, acid-base, complexometric, electrochemical, and spectroscopic analysis. **P: CHM 205; CHM 206.**
- CHM 321 Organic Chemistry I (3) I, S**  
Study of the structure and properties of organic compounds, as exemplified by alkenes, alkynes, alcohols, and alkyl halides. Stereochemistry, molecular structure, principles of reaction theory, and reaction mechanisms. **P: CHM 205 or CHM 285. CO: CHM 322.**
- CHM 322 Organic Chemistry Laboratory I (1) I, S**  
Fundamental techniques of experimental organic chemistry. Isolation, purification, and organic synthetic methods. **P: CHM 205 or CHM 285. CO: CHM 321.**
- CHM 323 Organic Chemistry Lecture II (3) II, S**  
Continuation of Chemistry 321. Further study of the principles of organic structure and reaction theory, including delocalized systems. Exploration of the chemistry of aromatic compounds, carbonyl compounds, and others, with additional emphasis on organic synthesis and structural analysis by spectroscopic methods. **P: CHM 321 CO: CHM 324.**
- CHM 324 Organic Chemistry Laboratory II (1) II, S**  
Further study of practical organic reactions, the use of spectroscopic methods (NMR and IR) to elucidate and confirm organic structures, and multistep organic synthesis. **P: CHM 322. CO: CHM 323.**
- CHM 341 Physical Chemistry I (3) II**  
An introduction to Physical Chemistry; Topics covered include thermodynamics, equilibrium, quantum chemistry, and spectroscopy. A combination of macroscopic and microscopic emphasis will be used. Topics will be introduced with some historical background and developed with an appropriate level of physics and mathematical rigor. **P: PHY 211, CHM 532; CO: CHM 342.**
- CHM 342 Physical Chemistry I Laboratory (2) II**  
Experiments in thermodynamics, equilibrium and kinetics will be conducted in an introductory research format. The writing of manuscripts and the maintenance of a laboratory research journal will carry equal import with experimental work. **CO: CHM 341.**
- CHM 351 Descriptive Inorganic Chemistry (2) II**  
A systematic study of the main group elements with an emphasis on chemicals and chemical reactions and processes important to society. Twelve sessions of a lecture/discussion and laboratory format. Each laboratory session will include 8-12 short experiments or activities. The purpose of the course is to extend the participants knowledge of descriptive chemistry by first hand laboratory experience. **P: CHM 205 or 285.**

- CHM 381 Fundamentals of Biochemistry (3) I**  
A one-semester survey of biochemistry for undergraduate science majors. Topics covered include structure-activity relationships of important biomolecules; metabolism and bioenergetics; DNA/RNA structure, function, repair and protein synthesis. **P: CHM 323.**
- CHM 382 Biochemistry Laboratory (2) I**  
A one-semester laboratory course designed to support CHM 381, Fundamentals of Biochemistry. Introduction to methods and instrumentation for biochemical measurements: analysis and isolation of biologically-important compounds, strategies for assaying biological activity, cloning and purification techniques for DNA/RNA. **P or CO: CHM 381.**
- CHM 421 Selected Topics in Organic Chemistry (3) OD**  
Study of classes of compounds and reactions of organic chemistry not covered in the regular two-semester sequence (CHM 321, 323). Possible topics include stereochemistry, natural products, computational methods in organic chemistry, physical organic chemistry, photochemistry and other topics of current interest. **P: CHM 323.**
- CHM 445 Chemical Thermodynamics (2) OD**  
This course will provide a more extensive introduction to classical thermodynamic theory, including treatments of the laws of thermodynamics, conditions of equilibrium, thermodynamics of gases and solutions, and ideal and non-ideal behavior. **P: CHM 341.**
- CHM 446 Statistical Mechanics (2) OD**  
The mathematical study of the connection between quantum mechanical behavior of individual atoms and molecules and their consequent macroscopic properties and phenomena. **P: CHM 341.**
- CHM 447 Physical Chemistry of Macromolecules (2) OD**  
The study of the effect of molecular weight, molecular weight distributions, and chain configuration of large molecules on physical and chemical properties. **P: CHM 341.**
- CHM 448 Group Theory (2) OD**  
This course will present an introduction to the theory of group representations. Topics will include the mathematical foundations of abstract group theory, including reducible and irreducible representations. Physical applications of group theory will include crystallographic point groups, group theoretical techniques in quantum mechanics, angular momentum, and vibrational spectroscopy. **P: CHM 341.**
- CHM 451 Inorganic Chemistry I (3) I**  
Relation of atomic and molecular structure to chemical and physical properties. Periodicity and descriptive chemistry of inorganic classes and groups. Topics covered include group theory, MO theory, molecular and ionic structures, redox reactions, acid/base theories, and coordination compounds. **P: CHM 341.**
- CHM 456 Instrumental Analysis (3) I**  
A senior level course on instrumental techniques used in analytical chemistry. Emphasis will be on modern instrumentation theory and applications in spectroscopy, electrochemistry, and chromatography. **P: CHM 341; CO: CHM 466.**
- CHM 466 Instrumental Analysis Laboratory (2) I**  
A laboratory-based course covering the theories and methods used in modern instrumental analysis. Topics include the theory and practice of instrumental techniques, statistical methods for evaluating and interpreting data, sources of noise and error, and experimental methods in spectroscopy, electrochemistry, and chromatography. One hour of recitation and three hours of laboratory per week. **P: CHM 341; C: CHM 456.**
- CHM 470 Chemical Literature (1) OD**  
Introduction to the literature of chemistry. Development of skills in chemical informatics through print and electronic resources. **P: CHM 323.**
- CHM 491 Careers in Chemistry (1) OD**  
A seminar course in which students are introduced to some of the careers within chemistry by speakers who work in the areas represented. Open only to chemistry majors (both degree programs). (One meeting a week). **P: CHM 321.**

- CHM 492 Industrial Internship** (1-3) I, II  
Each student will spend one day per week or its equivalent in an industrial plant or laboratory. Registration must be preceded by the student submitting a resume, a letter of application, and arranging for a personal interview with one or more industrial concerns prior to the registration date. Each student must be accepted by or have worked for an industrial employer prior to registration. **P: CHM 315 or CHM 285 and CHM 286.**
- CHM 493 Directed Independent Readings** (1-3) I, II, S  
Assigned reading in a special area of interest. **P: CHM 341.**
- CHM 495 Directed Independent Study** (1-3) I, II, S  
**P: CHM 341.**
- CHM 496 Directed Independent Research I** (1-2) I, II, S  
Initial participation in a pre-approved independent research project under the direction of a member of the department faculty. Research projects in chemistry conducted outside the department may also be acceptable. The course is repeatable for a max of 5 credits. **P: CHM 324 or CHM 285, 286.**
- CHM 497 Directed Independent Research II** (1-2) I, II, S  
Continuation in a pre-approved independent research project under the direction of a member of the department faculty. Students register for this course in their final semester of research. They are required to give a public presentation of their work and submit a research report. Research projects in chemistry conducted outside the department may also be acceptable. The course is repeatable for a max of 2 credits. **P: CHM 324 or CHM 285, 286.**
- CHM 502 Inorganic Chemistry II** (3) II  
Additional topics in inorganic chemistry. Emphasis on organometallic chemistry of transition metals, molecular binding, synthesis and chemical reactivities of inorganic and organometallic compounds. **P: CHM 501 or CHM 451.**
- CHM 506 Environmental Chemistry and Natural Resources** (3) II (Same as EVS 506)  
The nature, identification, and quantitative determination of air and water pollutants. Study of natural resources and energy production. Topics covered include the atmosphere, ozone, the troposphere, natural water, acid rain, drinking water, metals, organochlorine compounds and waste management. **P: CHM 205 or CHM 285.**
- CHM 521 Advanced Organic Chemistry: Synthetic Organic Methods** (3) (OD)  
A contemporary survey of the analysis, design, and execution of new methods and innovative total syntheses in organic chemistry. Approaches and techniques for critical reading, discussion, and application of the literature of organic chemistry will be introduced and developed. **P: CHM 323.**
- CHM 523 Bioorganic Chemistry** (3) OD  
A survey of current topics at the boundary between organic chemistry and biology, with emphasis on enzyme mechanisms, enzyme inhibition, enzyme models, and natural products. The current chemical literature will serve as source material for study and discussion. **P: CHM 323.**
- CHM 525 Organic Spectroscopic Analysis** (3) OD  
A study of infrared, nuclear magnetic resonance, and ultraviolet spectroscopy and mass spectrometry. Emphasis on both the theoretical basis of each method and the application of the methods to structure determination and other interesting chemical problems. **P: CHM 324, CHM 341, or IC.**
- CHM 527 Polymer Chemistry** (3) OD  
The goal of this course is to expose students to the fundamentals of polymer chemistry. The course will focus on some of the key synthetic methods and physical properties of polymers. Practical applications of polymer chemistry in society will be a theme throughout the course. **P: CHM 323 or IC.**
- CHM 532 Mathematical Concepts in Chemistry** (3) I  
Applications utilizing statistics, mathematical operators, vectors, determinants, group theory, series expansions, and basic differential equations in the modeling of chemical systems. **P: MTH 246.**

- CHM 543 Selected Topics in Physical Chemistry (3) OD**  
Selected topics from physical chemistry that match the interests of faculty and students, e.g. macromolecular chemistry, will be discussed. The course will begin with review of related material from the year's course in physical chemistry and end with current research. **P: CHM 341.**
- CHM 544 Quantum Chemistry (2) OD**  
This course is designed to teach the mathematical background of quantum chemistry. Topics covered include operator algebra, quantum mechanical postulates, rigid rotor and harmonic oscillator model systems, applications to chemical systems, and computational chemistry. **P: CHM 341.**
- CHM 545 Advanced Kinetics (2) OD**  
This course is designed to teach the mathematical skills necessary for modeling kinetic systems in chemistry. Topics covered include differential equation techniques, elementary rate laws, composite rate laws, collision theory, transition state theory, reaction dynamics, and potential energy surfaces. **P: CHM 341.**
- CHM 546 Use of Demonstrations in the Teaching of Chemistry I (2-3) S**  
This course concentrates on the use of demonstrations, activities, and other new ideas for use by the teacher in the presentation of chemical principles in the classroom. The theory behind each activity will be thoroughly discussed along with appropriate safety precautions.
- CHM 548 Chemical Applications of Spectroscopy (2)**  
This is a laboratory course designed to illustrate the theory and applications of spectroscopic analysis to chemical research. Techniques investigated will include IR, UV-Visible, Fluorescence/Phosphorescence, Raman, and NMR spectroscopy. Both gas-phase and solution-phase problems will be studied. **P: CHM 341.**
- CHM 549 Computational Chemistry (2)**  
This course is designed to introduce students to the applications of computational chemistry in chemical research. Students will learn about the variety of computational methods available including molecular mechanics, semi-empirical, Hartree-Fock, and density functional theory. Laboratory projects will include application of these methods to problems in organic, inorganic, and biological chemistry **P: CHM 341.**
- CHM 551 Descriptive Inorganic Chemistry (3) OD**  
Descriptive inorganic chemistry and laboratory practicum. A systematic study of the main group elements with an emphasis on chemicals and chemical reactions and processes of importance to society. Includes ten seven-hour sessions consisting of a four-hour lecture/discussion and three-hour laboratory format. Each laboratory session includes 10-15 short experiments or activities. Many of the activities could be utilized at the high school level; however, the purpose of the course is to extend the participant's depth of knowledge of descriptive chemistry by first-hand laboratory experience.
- CHM 555 Microscale Gas Chemistry (1-3) S**  
Lecture/Laboratory course designed to present the use of gases to teach or experimentally discover important concepts of the high school and college chemistry curriculum. Environmental issues, reaction stoichiometry, intermolecular forces, catalysis, combustion, and molar mass are a few examples. High school teacher participants will learn to safely and conveniently generate over a dozen gases for classroom and use in the teaching laboratory. Each gas can be used in a variety of experiments or classroom demonstrations. Each experiment will be linked to one or more chemistry concepts with discussion of pedagogy as appropriate.
- CHM 575 Nucleic Acid Biochemistry (3) OD**  
This course presents an in-depth investigation of the current research in nucleic acid biochemistry. The class will focus on the structure and function of nucleic acids, biochemical processes involving nucleic acids, interactions of nucleic acids with proteins and drug molecules, catalytic nucleic acids, and the genome and genetic engineering. The current literature will serve as source material for study and discussion. **P: CHM 381 or equiv.**
- CHM 586 Elementary School Science Demonstrations and Classroom Activities (3) S**  
This course offers elementary teachers practical methods for doing science in the classroom. Demonstrations and classroom activities that use a hands-on, interactive approach with students will be presented. The current methodology for interfacing science with language arts will be presented.

## CHINESE

### CHN 101 Beginning Chinese I (3)

Course designed to focus on the essential elements of basic communication and develop all four language skills (listening, speaking, reading and writing), as well as provide insight into the life and culture of Chinese-speaking countries and areas.

### CHN 102 Beginning Chinese I (3)

Continuation of CHN 101. **P: CHN 101 or equivalent.**

## CLASSICAL AND NEAR EASTERN STUDIES

*For the Classical and Near Eastern Studies Program of Study, please refer to page 121.*

### CNE 120 World Literature I (3) I, II (Same as ENG 120)

A chronological introduction to Western and non-Western literatures from the ancient world through the Renaissance. The course juxtaposes Greek literature, Roman literature, English literature from the Old English, Middle English, and Renaissance periods with contemporary literatures from Asia, the Middle East, and other non-Western cultures.

### CNE 300 Introduction to the Ancient Mediterranean World (3) OD (Same as GRK 300, LAT 300)

General introduction to the ancient Near Eastern, Egyptian, Greek and Roman world, focusing on the history, literature, material culture, religion and/or philosophy of each culture. Readings from ancient and modern sources.

### CNE 306 Literature of Ancient Greece (3) OD

Survey of ancient Greek literature from Homer to Plato, including works of epic, drama, lyric, history, and philosophy.

### CNE 308 Literature of Ancient Rome (3) OD

Survey of ancient Roman literature, including epic, drama, lyric, oratory, satire, fable, and philosophy.

### CNE 311 Classical Mythology (3) II

Nature and function of myth and legend; artistic, religious, psychological, and anthropological implications; influence on early and later literature and on art.

### CNE 313 The Hero in Antiquity (3) OD

Literary criticism of a broad range of ancient literature, including epic, tragedy, comedy, lyric poetry, and philosophical dialogues, with special focus on the role of heroism within society.

### CNE 315 Religions in the Greco-Roman World (3) OD

Beliefs and rituals of the religions of ancient Greece and Rome, including the mystery religions.

### CNE 316 Women in Ancient Greece and Hellenistic Egypt (3) (Same as WGS 316)

Survey of aspects of women's lives in Greek and Greco-Egyptian antiquity incorporating the evidence of art, literature, and archaeology: study of the constructs of the female and the feminine. Readings from ancient and modern sources.

### CNE 317 Women in Ancient Rome and Roman Egypt (3) (Same as WGS 317)

Survey of aspects of women's lives in Roman and Roman-Egyptian antiquity incorporating the evidence of art, literature, and archaeology; study of the constructs of gender and gender roles. Readings from ancient and modern sources. **P: So. stdg.**

### CNE 321 Epic Literature (3) OD

Homer's *Iliad* and *Odyssey*, Vergil's *Aeneid*, and, for purposes of comparison, the Epic of Gilgamesh and other epic literature with attention to cultural context, the heroic character, and poetic technique.

### CNE 323 Classical Greek Drama (3) I (Same as THR 323)

Selected works of Greek dramatists. The influence of Greek drama on English literature and on modern drama.



- CNE 348 Muhammad and the Rise of Islam** (3) OD (Same as HIS 348)  
The course examines the emergence and flowering of Islamic civilization from the time of the prophet, Muhammad, until the sack of Baghdad by the Mongols in 1258. Topics include Muhammad's prophetic mission, the Arab Kingdom of Damascus, the rise of the Abbasids, and the classical civilization of the High Caliphate. **P: So. stdg.**
- CNE 349 Egyptian Art and Archaeology** (3) OD (Same as ART 349, HIS 349, THL 349)  
This course will explore the history, society, culture, and religion of ancient Egypt from the predynastic era through the Ptolemaic period, as revealed through its artistic and material remains. Attention will be given to how sculpture, painting, architecture, and other material remains provide a window on Egyptian life and thought. **P: So. stdg.**
- CNE 350 Archaeology of Syria-Palestine** (3) OD (Same as ART 350, HIS 350, THL 350)  
A chronological survey of the archaeology of Syria-Palestine in which material culture provides a window on the history of society, economy, and religion from the Neolithic to Hellenistic times. Special topics include the emergence of farming and pastoral societies, the formation and dissolution of Bronze Age city-states, and the rise and fall of Iron Age kingdoms such as Israel, Moab, and Edom. **P: So. stdg.**
- CNE 354 Greek Art and Archaeology** (campus) (3) II (Same as ART 354)  
Study of the sculpture, painting, architecture, and sites of ancient Greece with emphasis on their archaeological, historical, and geographical aspects.
- CNE 355 Greek Art and Archaeology** (travel course) (3) S (Same as ART 355)  
Travel course. Twenty-three days. Mainland tour includes Athens, Eleusis, Corinth, Mycenae, Epidaurus, Sparta, Pylos, Olympia, Delphi, Meteora, Brauron, and Sounion. Island visits include four days on Crete and two days on Santorini. On-site and background lectures.
- CNE 357 Ancient Near Eastern Art and Archaeology** (3) OD  
History of painting, sculpture, architecture, and minor arts in the Ancient Near East from c. 3500 B.C. to the conquest of Achaemenid Persia by Alexander the Great in 331 B.C. Regionally, the course will survey the arts in Mesopotamia, in such peripheral areas as Anatolia and the Levant, and in ancient Iran.
- CNE 358 An Introduction to Roman Law** (3) OD  
An introduction to Roman Civil, Constitutional, and Criminal Law. Civil Law will be studied topically and through cases. Constitutional and Criminal Law are studied in their historical development and topically, through case studies. Careful thinking, the special genius of Roman Law, and its impact on the modern world will be major themes of the course. No previous experience in Classical Studies or Latin required.
- CNE 360 History of Mediaeval Ethics** (3) (Same as PHL 460)  
An investigation of mediaeval ethics, tracing its roots in classical antiquity and religious tradition, outlining its innovations, and outlining the ways in which it lays the foundations of modern ethics. **P: PHL 107 and either PHL 250 or THL 250.**
- CNE 362 Early Christian Art and Archaeology** (3) II, OD (Same as ART 362)  
Study of the development of early Christian architecture, painting, sculpture, and industrial arts; archaeological excavation of early churches and catacombs with emphasis on problems of interpretation; Western and Byzantine iconography.
- CNE 365 Greek Art** (3) OD (Same as ART 365)  
Sculpture, painting, and the minor arts of Greece.
- CNE 366 Etruscan and Roman Art** (3) OD (Same as ART 366)  
Sculpture, painting, and the minor arts of the Etrusco-Roman people.
- CNE 370 History of Classical Greek Philosophy** (3) AY (Same as PHL 370)  
Examination of the origins and development of Western philosophy during the classical period in ancient Greece; the pre-Socratics; Socrates and the Sophists; substantial study of the works of Plato and Aristotle. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- CNE 371 History of Hellenistic Philosophy** (3) AY (Same as PHL 371)  
Examination of the development of Western philosophy after Aristotle during the Hellenistic period in ancient Greece and imperial Rome. The study of Epicureanism (pleasure is the highest good), Stoicism (living in agreement with nature is the highest good), Skepticism

(peace of mind is gained by suspending one's judgment on all dogmatic claims to truth), and Neo-Platonism. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**

- CNE 381 Ancient Medicine (3) II, OD**  
Development of medical and surgical techniques and the philosophical, religious, sociological, political, and literary aspects of health care delivery in the ancient world; classical medical treatises, including Hippocrates and Galen.
- CNE 401 Greek History to the Peloponnesian War (3) I, AY (Same as HIS 401)**  
The political and social history of Greece, with excursions into its material culture, from prehistoric times through the end of the Peloponnesian War.
- CNE 403 The Roman Republic (3) I, AY (Same as HIS 403)**  
The political and social history of Rome with excursions into material culture covering developments from the Bronze Age to the end of the Roman Republic. Some emphasis will be placed on the political structures of the Republic, both in seeking the antecedents of the American constitution and in analyzing the causes of the Republic's fall.
- CNE 404 The Roman Empire (3) II, AY (Same as HIS 404)**  
The political and social history of the Roman Empire, with excursions into its material culture, from the Age of Augustus through the reign of Constantine the Great. Emphasis will be placed on the provinces and the diverse ethnic groups within the Empire.
- CNE 410 Stoicism (3) OD (Same as PHL 410)**  
Study of the philosophy originated by Zeno of Citium in the Stoa Poikile in Athens around 300 BCE and the influence of Stoicism in the history of Western philosophy. Investigation of the Stoic system of physics, logic, and ethics; the doctrines of naturalism, rationalism, fatalism, providence, cosmopolitanism, autarky, apatheia, and suicide. Possible topics include philosophy of mind, philosophy of language, freedom and determinism, and political philosophy. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- CNE 418 Great Empires of the Near East (3)**  
This course will examine the history, culture, and society of the peoples of Mesopotamia, including the Sumerians, Akkadians, Babylonians, Assyrians, Hittites, and Persians. Focus will be given to their distinctive institutions and world-views and how these are expressed through their cultural artifacts and social system..
- CNE 419 Ancient Egypt: History, Society, and Culture (3)**  
This course will explore the history, society, economy, and religion of ancient Egypt from the predynastic era through the Ptolemaic period, as revealed through its artistic and material remains. Attention will be given to how sculpture, painting, architecture, and other material remains provide a window on Egyptian life and thought.
- CNE 420 Selected Topics in Ancient History (3) OD (Same as HIS 420)**  
Topical approach to selected problems or special periods in ancient history. Course will be subtitled in the Schedule of Courses. Course is repeatable as long as subtitle is different.
- CNE 421 Roman Social Satire (3) OD**  
Readings from Horace, Juvenal, Petronius, and other Roman satirists.
- CNE 423 Greek and Roman Comedy (3) OD**  
Origins, literary characteristics, and influence of Greek Old and New Comedy and Roman Comedy: Aristophanes, Menander, Plautus, and Terence. Theory of the comic.
- CNE 425 Myths That We Live By (3) (Same as SRP 425)**  
Examination of the values expressed in ancient classical and Near Eastern myths, how they were reappropriated in new context, and how they continue to express fundamental values of and insights into human life. **P: Sr. Stdg.**
- CNE 430 Selected Topics in Ancient Art and Archaeology (3) OD (Same as ART 430)**  
Topical or regional focus in the area of ancient art and/or archaeology. Course will be subtitled in the Schedule of Courses. Course is repeatable as long as subtitle is different.
- CNE 440 Selected Topics in Classical Literature (3) OD**  
Topical approach to selected problems or themes in ancient literature. Course will be subtitled in the Schedule of Courses.

- CNE 460 Selected Topics in Ancient Philosophy** (3) OD (Same as PHL 460)  
Topical approach to selected problems or themes in ancient philosophy, or focus on an individual philosopher or school of philosophy. Course will be subtitled in the Schedule of Courses. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- CNE 461 The City of Rome** (3) OD (Same as ART 461)  
An Architectural, Artistic, and Social Historical Survey of the city of Rome, concentrating on the ancient city but also tracing its development (as appropriate) through modern times. Political History will be covered to the extent needed to provide a framework for the course, but does not overlap with CNE/HIS 404.
- CNE 462 Homer, Troy and the Trojan War** (3)  
Study of the literature, mythology, art and archaeology connected with the Trojan War. An examination of the historicity of the Trojan war, with discussion of questions such as: Can literature be used as a guide to archaeology? Can the archaeological record confirm or deny the reality of the Trojan War. **P: So. stdg.**
- CNE 493 Directed Independent Readings** (2-4) I, II, S  
Credit by arrangement. Designed to meet the special needs of qualified students. May be repeated to a limit of six hours.
- CNE 497 Directed Independent Research** (1-3) OD  
May be repeated to a limit of six hours. P: DC.
- CNE 498 Senior Capstone Seminar** (3) II (Same as GRK 498, LAT 498)  
Directed research on a general topic; preparation and public presentation of a senior thesis. CNE 498 open only to Classics majors.
- CNE 520 The Dead Sea Scrolls** (3) OD (Same as THL 520)  
Introduction to the Dead Sea Scrolls and various theories about their origin. Exploration of the light they shed on the textual history of the Hebrew Bible, developments in ancient Judaism, and the early history of Christianity. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**
- CNE 524 History of Ancient Israel** (3) OD (Same as HIS 524, THL 524)  
An examination and reconstruction of the history of ancient Israel from biblical and other ancient Near Eastern literary texts, and from archaeological and epigraphic materials. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**
- CNE 525 Archaeological Fieldwork and Analysis** (3) S (Same as ANT 525, THL 525)  
The student learns the principles of stratigraphic archaeology (or underwater archaeology) by participating in an excavation for a minimum of four weeks. The student will learn stratigraphic theory and excavation strategy, basic archaeological techniques, and the basic analysis of archaeological materials recovered from the site. (Underwater archaeologists will learn basic underwater techniques in place of some terrestrial methods.) **CO: CNE 526.**
- CNE 526 Archaeology of Roman Palestine** (3) S (Same as ANT 526, THL 526)  
This is a study of ancient Palestine from the rise of the Herodian dynasty in the first century BCE to the aftermath of the Muslim conquest in the seventh century CE. The material of the course is the physical remains of archaeological sites throughout modern Israel, along with movable cultural remains that issued from these sites. The major focus of the course will be the interaction between classical Mediterranean civilization on the one hand, and the Jews and other Middle Eastern peoples on the other, in the age that yielded Rabbinic Judaism, Christianity, and Islam. **CO: CNE 525.**
- CNE 529 Translations of the Bible** (3) OD (Same as THL 529)  
Various ancient and modern translations of the Bible and their significance. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**

# COMMUNICATION STUDIES

*For the Communication Studies Program of Study, please refer to page 123.*

- COM 151 Effective Public Speaking** (3) OD  
Practical study in the effective communication of thought and emotion in public speaking. Development of skills in message organization, reasoning, topic analysis, and delivery. Individual performances with teacher criticism.
- COM 152 Principles of Communication Competence** (3) I, II, S  
An introduction to the process by which informed, sound, and sensitive messages are formulated and delivered to influence decision-making. Emphasis on acquiring common analytic approaches to message preparation: the sources, credibility, and uses of evidence; patterns of inference; and the selection and presentation of judgments. Students apply critical thinking skills to solve problems and build consensus in interpersonal, small-group, and public settings.
- COM 201 Introduction to Debate and Forensics** (1-3) I, II  
Foundations of debate and forensics. May be repeated to a limit of three hours. **P: IC.**
- COM 202 (340) Communication Theories** (3) I  
Overview of the basic communication discipline through examination of basic theories and research in various communication contexts. Focuses on understanding and strategies of written and spoken communication used in interpersonal, intercultural, organizational, group, and mass media.
- COM 203 (200) Introduction to Communication Research Methods** (3) II  
Examination and practical application of research methods in Communication Studies. Includes rhetorical, cultural, interpretive, quantitative methods of analyzing communication artifacts such as content analysis, field research, ethnography, rhetorical criticism, among others. Applied to such areas as culture, group, interpersonal, family, organization, and media.
- COM 205 Parliamentary Procedure** (3) OD  
Fundamentals of Parliamentary Law; practice in conducting typical meetings held by clubs and school and civic organizations. A study of constitutions, by-laws, minutes, and committee reports.
- COM 244 Cross-Cultural Communication** (3) OD (Same as ANT 244)  
Course combines attention to sociolinguistic theory and analysis with practical strategies for maximizing communication between people from varying national, ethnic, professional, religious, and regional backgrounds. **P: So. stdg.**
- COM 301 Intermediate Debate and Forensics** (1-3) I, II  
Further studies in debate/forensics techniques and practice. May be repeated to a limit of three hours. **P: IC.**
- COM 305 Speech Techniques for the Classroom Teacher** (3) OD  
Analysis of speech problems encountered in the classroom particularly on the elementary level. Practical experience will be offered in speech assignments that can be utilized in various courses. The teacher's own speaking will receive attention.
- COM 310 Writing Strategies for the Organization** (3) OD (Same as ENG 310)  
Presentation of written communication used in organizations. Topics include preparation of memos and letters, research skills, and the formal report.
- COM 311 Ethics and the Uses of Rhetoric** (3) OD (Same as ENG 311)  
Survey of the major works on rhetoric that treat ethics from the time of Plato to the Moderns. **P: Jr. stdg.**
- COM 312 Mass Media and Modern Culture** (3) I, II (Same as AMS 312, ENG 312)  
Examination of the role of film, television, and print media in American life. **P: ENG 120, 121, 150; Jr. stdg.**
- COM 314 Managerial Communication** (3) I, II, S  
Theory and practice of advanced topics in managerial communication. Topics include organizational structure and lines of communication; interpersonal and group communication in organizational settings; problem solving; interviews; techniques for written and oral presentations. **P: COM 152 and Jr. stdg.**

- COM 317 Studies in Argumentation and Debate (3) OD**  
Practical course in the study of oratorical and debate techniques.
- COM 319 Language, Culture, and the Individual (3) AY (Same as ANT 319)**  
The anthropological approach to the study of language examines the biological source and manner of human communication as well as the cultural processes that structure languages, their meanings, means of acquisition, and transformations. The course examines the inter-relationship of individuals, groups, and the wider culture through language. **P: So. stdg.**
- COM 320 Leadership: Theories, Styles, and Skills (3) I, S (Same as EDU 320)**  
Course designed to offer participants an opportunity to gain a working knowledge of leadership theories and group dynamics. Designed to develop and improve leadership skills and to learn how to apply these skills in a practical setting.
- COM 321 Persuasion (3) I**  
Theory and practice for the advanced student interested particularly in psychology and method of persuasion. Useful for professional fields which deal in persuasion, or for anyone interested in better understanding the world of persuasion in which he or she lives.
- COM 352 Advanced Presentational Forms (3) I**  
This course is designed to assess each student's public presentation abilities, teach them how to refine their presentation skills, and give them multiple opportunities to practice these skills. Students will have an opportunity to develop their public presentation skills in a variety of different situations including extemporaneous speeches, employment interviews, and speeches of public advocacy. Students will also give speeches having a variety of goals including transferring information, changing attitudes, challenging others' ideas, and responding to unanticipated situations. **P: COM 152; COM major or IC.**
- COM 353 Speaking Strategies for the Organization (3) OD**  
Practical training in speeches for informal and formal business/professional settings. Practice in sales presentations, technical reports, impromptu speaking, and speeches for special occasions. Special focus on use of visual and graphic support, message organization and delivery. Extensive use of videotape to record and evaluate student performances. **P: COM 151 or 152.**
- COM 360 Organizational Communication Theories (3) I**  
Introduction to the basic theories, research, and methods of effective communication needed in the organizational setting. Review of the strategies of spoken and written communication to increase understanding and to affect the actions of others. Topics may include theories of management, models of communication, formal and informal communication networks, the elements of superior-subordinate communication, and communication styles and problems.
- COM 361 Interpersonal Communication (3) I**  
Examination of person-to-person communication. Topics include perception, motivation, language and meaning, nonverbal communication, and listening.
- COM 362 Small Group Communication (3) II**  
Examines the need for communication within and between groups within the organization. Theory and practice in methods for improving communication within and between groups, including leadership, conflict management, and decision-making.
- COM 363 Family Communication (3) II**  
An introduction to the process by which students can use the principles of interpersonal and group communication to create and sustain healthy family relations. Course seeks to enable students to create and sustain cohesion and adaptability as two prerequisites for successful family relations. Topics covered include communication patterns and family meaning, the communication of intimacy, the communication of family roles, decision making in families, family conflict resolution, and communication strategies for reducing family stress.
- COM 370 Human Resource Administration (3) II**  
Introduction to human resources management and practices in business and non-profit settings. Topics include role of human resources in organizational settings, equal employment opportunity; analyzing and staffing jobs; employee recruitment and selection; training and development; employee appraisal; and human resources administration as a career path.

- COM 380 History and Criticism of Cinema** (3) I, S (Same as ART 380, ENG 380)  
Motion pictures as a distinctive medium of communication and as an art form; film language; film history; film appreciation; critical assimilation of film content. 2R, 3L. **P: ENG 120, 121, 150.**
- COM 390 Health Communication** (3) II (Same as HAP 390)  
This course investigates research and theories and permits students to demonstrate practical applications of communication within health care situations. The course emphasizes understanding communication variables such as verbal, nonverbal, conflict, listening, and self-disclosure in health care contexts. The course also examines issues of ethics and relationships between health care providers, patients, and families.
- COM 401 Junior Varsity Debate and Forensics** (1-3) I, II  
Competitive debate and forensics. May be repeated for credit to a limit of three hours. **P: IC.**
- COM 427 Interviewing** (3) OD  
Study of research, theories, and strategies for effective interviewing. Practical work with students in interview situations, both for interviewer and interviewee. Study of employment interviews, information-gathering interviews, persuasive/sales interviews, and resume writing.
- COM 431 Special Studies in Forensics** (1-3) OD  
Projects in oral interpretation, rhetorical criticism, and advanced public speaking. **P: IC.**
- COM 440 Gender Communication** (3) II (Same as SOC 440, WGS 440)  
Focuses on the similarities and differences in the communicative behaviors of women and men. Lectures, in-class experiential exercises, role-playing, and group discussions devoted to such topics as female-male roles and stereotypes; differences in verbal and nonverbal codes; partnership styles and alternatives; specific communication skills aimed at female-male relationships in a variety of settings (e.g., education, the workplace, the media, etc.); and special problem areas of female-male communication.
- COM 460 Advanced Organizational Communication** (3) II  
This course bridges organizational communication theory and practice by emphasizing skills and concepts to assist students as communication professionals. This course includes units on topics such as team building, multicultural communication, interviewing, facilitating organizational identification, technological competence, change-related/crisis communication, conflict management, managing work-life relationships and maintaining ethical communication. **P: COM 202; COM 360 or IC.**
- COM 461 Advanced Interpersonal Communication** (3) II  
This course will involve an in-depth look at interpersonal communication. Examination of theories and research in dyadic relationships will be the primary focus of the course. Topics covered in the course include the understanding of research methodologies in interpersonal communication; the development maintenance, dissolution and re-establishment of interpersonal relationships from childhood to later-life relationships; and the examination of relational topics such as emotion, love, sexuality, conflict, jealousy, aggression, violence, loss and bereavement. You will learn the various perspectives of research methodologies, how to interpret and critique scholarly work, and conduct and present original research in the field of interpersonal communication. Critical analyses of your own interpersonal communication will also be applied throughout the semester. **P: COM 203; COM 361.**
- COM 463 Organizational Assessment** (3) I (Same as EDU 463, SOC 463)  
Workshop evaluating characteristics of organizations (including schools and service organizations). Practical training in assessing the effectiveness of such interventions as curriculum, training and development, and personnel. Special emphasis on planning, conducting, and interpreting surveys; developing questionnaires, interpreting results, and writing final reports. **P: COM 203.**
- COM 464 Organizational Training and Development** (3) II  
Practical experience in designing, conducting, and evaluating training and development workshops within organizations. Topics include analyzing training needs; adult learning styles; setting training objectives; conducting instructional workshops; consulting practices; and training evaluation.

- COM 470 Seminar in Film Studies** (3) OD (Same as AFS 470, BKS 470, ENG 470)  
 Topical seminar with topics changing in different semesters. Examination of particular areas of film and popular culture. Topics in different semesters might include detailed examination of a film genre (e.g., the western; science fiction; detective films), or film and cultural studies (e.g., women and film; film and developing nations). May be repeated for credit to a limit of six hours.
- COM 488 Personal and Spiritual Dimensions of Leadership** (3) OD (Same as EDU 488, SRP 488, THL 488)  
 The purpose of the course is to give students the opportunity to engage in introspection and examination of their personal belief and value systems as it relates to leadership. The course begins from the assumption that leadership is “a journey that begins within” and examines the relationship between leadership theory and Christian spirituality. Biographical examples will be analyzed; biographies will be drawn from diverse fields such as health, science, business, government, sports and education. **P: Sr. stdg.**
- COM 490 Communication and Community** (3) II  
 Communication and Community is the senior capstone course for majors in Communication Studies. It offers students an opportunity to channel the experiences they have had with communication research and theory over the past years in order to prepare for life as a professional and a member of society. Students revisit the concept that communication and rhetoric (symbolic action) create and define social reality and examine how that has manifested in differing worldviews, resulting in “isms” (racism, heterosexism, ethnocentrism, etc.) as well as “moral conflicts.” Students will discuss the importance of societal engagement and being a member of (multiple) communication communities. To supplement the “book” learning of the classroom, there will also be a community-based learning component where students take their new knowledge, in combination with their communication expertise, and engage with an unfamiliar or unknown Omaha community group. **P: COM Major and Sr. stdg.**
- COM 493 Directed Independent Readings in Communication** (1-3) I, II, S  
 In-depth survey of literature on a topic determined in consultation between a student and faculty supervisor. Requires extensive library work and a written analysis of readings. Subject matter and method constructed to meet the individual needs of students. May be repeated for credit to a limit of six hours. **P: DC and approval of major advisor prior to early registration.**
- COM 494 Directed Independent Study in Communication** (1-3) I, II, S  
 Subject matter and method constructed to meet the individual needs of students. May be repeated for credit to a limit of three credits. **P: DC and approval of major advisor prior to early registration.**
- COM 495 Special Topics in Communication Studies** (3) OD  
 Focus on developing practical application of communication concepts in a variety of contexts. Course will be subtitled in the Schedule of Courses. No more than six hours of COM 495 may be taken for credit toward a degree. **P: Major status or IC.**
- COM 496 Communication Internships** (1-3) I, II, S  
 Students are placed in organizations for the purpose of applying the principles and theories learned in the classroom. Supervision provided both on site and on campus. May be repeated for credit to a limit of six semester hours. **P: COM 202, COM 360 or COM 361.**
- COM 497 Practicum in Debate** (3) OD  
 Workshop for high-school debate coaches in the methods and techniques of preparing secondary school students for competitive debating.
- COM 501 Varsity Debate and Forensics** (1-3) I, II  
 Intercollegiate competitive debate and forensics. May be repeated for credit to a limit of three hours. **P: IC.**

## COUNSELOR EDUCATION

**The Graduate Program in Counseling is in a major revision process. This revision will lead to application for accreditation by the Council for Accreditation of Counseling and Related Educational Programs (CACREP). Current program information may be obtained from the Director of the Counseling Program.**

- COU 390 Residence Halls Advising (3) I, II**  
Designed to give resident assistants (RA's) knowledge of the role of residence halls in promoting the growth and development of college students and to provide them with the requisite knowledge and skills in helping, problem-solving, crisis management, community development, and programming to achieve this goal. **P: Resident halls advisors only.**
- COU 540 Professional Orientation and Ethics in Counseling (3) I, II, S (Same as PSY 540)**  
A survey of the counseling process, including the role of the counselor, characteristics of the client(s), helping and referral skills, and theories of counseling. **P: Sr. stdg.**
- COU 542 Seminar in Counseling (1) I, S**  
Self assessment of skills appropriate to counseling by means of psychometric assessment and participation in a personal growth group. **P: IC. CO: COU 540.**
- COU 544 Life Span Development (3) I, S**  
Focuses on a broad overview of physical, social, and psychological aspects of human development from conception to old age. **P: Jr. stdg.**
- COU 573 Treatment Modalities in Marriage and Family Therapy (3) OD**  
The primary family systems modalities in marriage and family therapy are presented both in theory and in case study analysis. The presenting problem, history of the problem, family history, identification of dysfunctional dynamics, goals, plan of treatment, and outcome/evaluation are emphasized in each modality. **P: IC.**
- COU 575 Introduction to Peer Education in Student Development Programming (3) OD**  
Introductory course in the conceptualization, development, and practical application of innovative outreach programming in student service settings. Emphasis on presentation development in such areas as interpersonal relationships, health and wellness issues, stress management, alcohol and drugs, career planning, and leadership development. **P: Jr. stdg.**
- COU 580 Theory and Treatment of Addictive Disorders (3) OD**  
Presentation of substance abuse theory, various treatment approaches, and intervention strategies which are currently in use in chemical dependency treatment and prevention programs. Students will have the opportunity to explore several theoretical approaches, incorporate these approaches into their own on-going developmental body of knowledge, and develop an integration plan to utilize their own personal theory of counseling in a program of treatment for chemical dependency. **P: Jr. stdg.**
- COU 582 Family Dynamics of Addictive Disorders (3) OD**  
Designed to provide students with an understanding of various ways in which the family is affected by the addiction of one or more of its members. Students will have the opportunity to explore several theoretical approaches to family work, become aware of current research in the area, gain an understanding of current intervention strategies used with the family, and explore the variety of ways in which the family is involved in the rehabilitation process. **P: Jr. stdg.**
- COU 583 Case Planning and Clinical Treatment in Chemical Dependency (3) OD**  
Designed to provide students with an understanding of the need to serve those who live with substance abuse/dependence or related disorder. This course provides comprehensive problem definitions, treatment goals, objectives, interventions, and DSM IV TR diagnosis for 29 substance abuse related disorders. **P: DC.**
- COU 584 Stress and Crisis Management (3) OD**  
An understanding of the nature and causes of personal stress and crisis situations, methods of intervention and management. Emphasis on practical application through simulation and practicum situations from both a personal and professional perspective. **P: COU 540.**



- COU 586 Drug Use and Human Behavior (3) OD**  
 Examination of the effects of drug use on society and the effects of society on drug and alcohol use with emphasis on substance abuse and addiction. Discussion of the history of legal restrictions on the possession and sale of drugs in the United States. The pharmacology of commonly abused drugs will be described in terms that can be understood by those who are not in the health professions. **P: Jr. stdg.**
- COU 590 Counseling Significant Losses (3) I (Sam as PSY 590)**  
 An investigation of the counseling process as applied to life events that occur in the area of significant loss. An investigation of the role of the counselor, characteristics of clients, helping and referral skills, and theories of counseling as applied to significant loss events.

## **COMPUTER SCIENCE**

*For the Computer Science Program of Study, please refer to page 125.*

- CSC 107 Introduction to Computing and the Web (3) OD**  
 An introduction to computers and computer science, including basic programming skills in a Web-based environment. General topics include the history of computers and the Internet and a basic understanding of computer technology. In addition, students will design and experiment with interactive Web pages using a scripting language.
- CSC 121 Computers and Scientific Thinking (3) I, II**  
 An overview of computing technology and its use in scientific disciplines. The scientific method will be studied, as students develop critical-thinking and problem solving skills with applications in computer science and the natural sciences. Topics include computer organization, the impact of technology on society, and interactive Web page development.
- CSC 221 Computer Programming I (3) I, II**  
 A first course in computer programming and problem solving. Specific topics include algorithm development, basic control structures, object-oriented design, and simple data structures.
- CSC 222 Computer Programming II (3) I, II**  
 A second course in computer programming, building upon the concepts and techniques from CSC 221. Specific topics include object-oriented programming concepts, recursion, linked structures, searching and sorting techniques, and stacks and queues. **P: CSC 221.**
- CSC 304 Visual Basic (3) OD**  
 An introduction to Visual Basic programming for the experienced programmer. Techniques of Visual programming are covered, including the basic set of widgets provided by the VB environment. Further topics include the structure of VB programs, files, drag-and-drop, graphics, and DLLs. **P: CSC 222.**
- CSC 309 Discrete Structures (3) II**  
 The mathematical foundations of computer science, including logic, Boolean algebra, basic graph theory, finite state machines, grammars, and algorithms. **P: CSC 221.**
- CSC 324 Web-based Interface Design (3) OD**  
 An introduction to the design and development of Web pages. HTML fundamentals, as well as Image Maps, Forms, Frames, Style Sheets, and Plug-ins are covered. The development of simple graphics, the fundamentals of graphic design, and user-centric design philosophies are also studied. **P: CSC 221.**
- CSC 328 Electronic Commerce (3) OD**  
 An introduction to the theory and practice of electronic commerce. Students apply programming skills to the design and implementation of a business Web site, utilizing HTML forms, Web scripting, and database applications. Additional issues considered are security, and privacy. **P: CSC 221.**
- CSC 331 C Programming and UNIX Environment (3) OD**  
 An introduction to programming for scientific and systems-oriented applications using the C programming language. **P: CSC 221; six hrs. college MTH.**
- CSC 414 Introduction to Computer Organization (3) I**  
 An introduction to the organization and design of modern computing devices. Topics include basic addressing modes, instruction formats and interpretation, I/O devices, memory organization, and microprogrammed control. **P: CSC 222.**

- CSC 426 Website Administration (3) II**  
A practical study of Web server technology and management techniques. This course deals with server hardware and software necessary for providing a server setting where client Internet sites can be hosted. Database connectivity is also part of the course. **P: CSC 222.**
- CSC 427 Data Structures and Algorithm Analysis (3) I**  
An advanced problem-solving course that focuses on the design and analysis of data structures including lists, trees, and hash tables, searching and sorting, and graph algorithms. In addition, approaches to problem solving such as divide-and-conquer and dynamic programming are covered. **P: CSC 222, CSC 309.**
- CSC 444 Human Computer Interaction (3) II**  
A survey of topics and techniques related to the design of software and hardware interfaces. In studying systems that interact effectively with humans, the investigator must understand principles of human behavior, physiological and psychological characteristics of human cognition, ergonomics, information systems, and interface design.
- CSC 452 Windows Programming (3) II**  
The design and development of software systems for the Microsoft Windows environment. Topics include the Windows API, event-driven programming, widgets and toolboxes. **P: CSC 222.**
- CSC 462 Oracle Programming (3) S**  
An introduction to programming for database applications using Oracle. Topics include database creation, SQLPLUS and PL/SQL programming, procedures, and triggers. **P: CSC 222.**
- CSC 493 Directed Independent Readings (Credit by arrangement)**  
A directed reading course investigating current topics in computer science. May be repeated for credit to a limit of six hours. **P: DC.**
- CSC 495 Directed Independent Study (Credit by arrangement)**  
A directed study course investigating current topics in computer science. May be repeated for credit to a limit of six hours. **P: DC.**
- CSC 515 Computer Architecture (3) II**  
An advanced study of the design and implementation of digital computers and networks. Topics include the components of micro, mini, and mainframe architectures, microprogramming, parallel computers, pipeline and vector processing, and RISC vs. CISC architectures. **P: CSC 414.**
- CSC 525 Automata, Computability, and Formal Languages (3) OD**  
An introduction to the theory of computer science including formal language theory (grammars, languages, and automata including Turing machines), and an introduction to the concept of effectively computable procedures, computability theory, and the halting problem. **P: CSC 222, CSC 309.**
- CSC 528 Advanced Electronic Commerce (3) I**  
An advanced course in the theory, techniques, and tools for developing and maintaining commercial Web sites. Students will be expected to design and implement a transaction-based site with database and security support. **P: CSC 542.**
- CSC 533 Organization of Programming Languages (3) II**  
The study of programming language design and implementation techniques, with an emphasis on features and tradeoffs between various programming languages. Topics include formal syntax and semantics, memory management, data types, and program control. Programming in multiple paradigms, such as procedural and functional, is covered. **P: CSC 427.**
- CSC 535 Introduction to Compiler Design (3) OD**  
An advanced study of compiler technologies and implementation techniques. Building upon previous exposure to program language structures, grammars, and execution models, this course covers the specifics of parsing, compiling, and executing programs. Specific topics include symbol tables, lexical scanning, syntax and semantic analyzers, error diagnostics, and object code optimization techniques. **P: CSC 427.**

- CSC 538 Networks LAN and NOS (3) II**  
A course in the fundamental concepts of computer networking, with emphasis on Local Area Networks (LAN) and Network Operating Systems (NOS). The course combines general networking technology concepts with practical experience configuring and administering a LAN NOS. Specific topics physical technology, logical link control, media access control, and TCP/IP. **P: CSC 222.**
- CSC 539 Operating Systems Structure and Design (3) II**  
A study of operating systems and the management of system resources in a computing environment. Various environments and scheduling algorithms are studied and compared, as well as approaches to I/O programming, interrupt programming, time sharing, and memory and resource management. **P: CSC 427.**
- CSC 542 Relational Database Design (3) I**  
The theory and practice of designing and building relational databases. Topics include the relational algebra, SQL, normal forms, error recovery, concurrency control, and application program generation. **P: CSC 222.**
- CSC 543 Numerical Analysis (3) OD**  
The application of computer programming and analysis to numerical and scientific applications. Topics include numerical differentiation and integration, solutions of equations and systems of equations, polynomial approximation, and error analysis. **P: MTH 246.**
- CSC 548 Object Oriented Design (3) II**  
An advanced programming course in object-oriented design and programming techniques, including the design and implementation of large software systems. Specific topics include object modeling, inheritance, polymorphism, dynamic object behavior, and software engineering principles. **P: CSC 222.**
- CSC 550 Introduction to Artificial Intelligence (3) II**  
An overview of the field of Artificial Intelligence, with emphasis on current theories and techniques for developing systems that exhibit “intelligent” behavior. Topics include natural language parsing, search techniques, game playing, problem solving, learning, pattern recognition, and understanding. **P: CSC 427.**
- CSC 551 Web Programming (3) I**  
An advanced study of Internet and Web protocols and the integration of programming techniques with a Web interface. Both client-side and server-side programming are covered, with topics including HTML, client-side scripting, server-side programming via the Common Gateway Interface, and current development technologies. **P: CSC 222 or CSC 121 and 221.**
- CSC 555 Computer Graphics (3) I**  
This course covers the algorithms and technology for developing and manipulating graphical images on a computer. Topics include graphics display devices, digital storage, interactive vs. passive graphics, and the mathematics of 2-dimensional and 3-dimensional transformations. **P: CSC 427.**
- CSC 571 Introduction to Data Communication and Networks (3) OD**  
An advanced course in computer networking and data communication. Topics include communication protocols and interfaces, functional layers, switching and error handling; networking and interfaces, local/broad area network, reliability and security. **P: CSC 414.**

## *DANCE*

- DAN 101 Introduction to the Dance (3) I, II**  
Dance classes where the student will develop an appreciation of three techniques at the beginning level: ballet, modern and jazz. Practical classes, lectures, video tapes and attendance at dance performances with written responses to the concerts are all requirements.
- DAN 110 Beginning Dance Studies I (3) I, II**  
This is a combination class of Modern and Ballet or Tap/Jazz and Ballet. Further development of techniques taught in DAN 101.
- DAN 111 Beginning Dance Studies II (3) I, II**  
Continuation of DAN 110.

- DAN 112 Beginning Dance Studies III (3) I, II**  
Continuation of DAN 111.
- DAN 121 Beginning Modern Dance (1) I, II**  
Fundamentals of Modern movement experienced through qualities of space, time, energy and flow; emphasis on technique and improvisation. May be repeated to a total of three credit hours.
- DAN 131 Beginning Tap/Jazz (1) I, II**  
The further study of Jazz technique and tap fundamentals. May be repeated to a total of three credit hours.
- DAN 141 Beginning Ballet (1)**  
The study of ballet technique to include ballet vocabulary and fundamental ballet principles. May be repeated to a total of three credit hours.
- DAN 151 Production Practicum (1-2) I, II (Same as THR 151)**  
Course is divided into two segments. *Course description for segment one, Technical Crew:* Technical crew work in Creighton theatre and dance productions; may include set construction, properties, sound, lighting. Per credit hour, the course requires three hours of shop work weekly (time to be arranged to fit student's schedule) and working one production as a crew member. *Course description for segment two, Costume Crew:* Costume construction for Creighton theatre and dance productions. Per credit hour, the course requires three hours of costume shop work weekly (time to be arranged to fit student's schedule) and working one production as a wardrobe crew member. This course may be repeated to a limit of eight semester hours.
- DAN 153 Stagecraft (3) I (Same as THR 153)**  
Fundamentals of developing the scenic background for theatrical productions. Introduction to tools and equipment through theory, lecture, and demonstration. 1 R, 3L.
- DAN 210 Intermediate Dance Studies I (3) I**  
A combination of Modern and Ballet or Jazz/Tap and Ballet. Intermediate level study of these dance forms with accent on technique and vocabulary.
- DAN 211 Intermediate Dance Studies II (3) II**  
Continuation of DAN 210.
- DAN 212 Intermediate Dance Studies III (3) II**  
Continuation of DAN 211. For students who wish to have a further semester at this level.
- DAN 217 Movement for Actors (3) (Same as THR 217)**  
A study of dance forms relating to the theatre including warm-up, tap, jazz, musical theatre, ballet, African dance and improvisation. The course is designed to help achieve the widest range of physical and emotional expression through the body in relation to the space around us.
- DAN 221 Intermediate Modern Dance (1)**  
A continuation of DAN 121 for the student who wants to continue Modern dance studies. May be repeated for a total of three credit hours.
- DAN 231 Intermediate Tap/Jazz (1)**  
A continuation of DAN 131 for the student who wants to continue Jazz/Tap studies only. May be repeated for a total of three credit hours.
- DAN 241 Intermediate Ballet (1)**  
A continuation of DAN 141 for the student who wants to continue ballet studies. May be repeated for a total of three credit hours.
- DAN 242 Dance Composition and Theory I (2) I, II**  
Improvisation and elements of composition in all of the classical and modern traditions. The choreographing of a solo work in any one of the dance genres to be performed in front of a panel.
- DAN 243 Dance Composition and Theory II (2)**  
Continuation of DAN 242. The choreographing of a trio or larger company to be performed in front of a live audience on the Mainstage.
- DAN 283 Summer Session Workshop in Beginning Dance (1-3) S**  
Classical ballet, pointe, modern dance, jazz and character dance technique classes are supported by music for dance. Guest faculty and workshop emphasis vary from year to year.

- DAN 293 Advanced Classical Ballet I (1-3) I, II**  
Advanced development of classical ballet studies. May be repeated to a total of six credit hours.
- DAN 303 Theory of Teaching Dance to Children I (2) I, II**  
Approached through pre-ballet techniques and progressing through the first six grades of the Royal Academy of Dance (London) children's syllabus. **P: DAN 212/ DAN 241 or IC.**
- DAN 304 Theory of Teaching Dancing to Children II (2) I, II**  
Continuation of DAN 303. Completing the Royal Academy of Dance (London) children's syllabus. **P: DAN 303 or IC.**
- DAN 310 Advanced I Dance Studies I (3-4) I**  
Combination class at the advanced level of study in modern and ballet or tap/jazz and ballet. Ballet at this level would be advanced for three credits plus one credit for either modern or jazz/tap. **P: DAN 212 or audition; IC.**
- DAN 311 Advanced I Dance Studies II (3-4) II**  
Continuation of DAN 310. **P: DAN 310 or IC.**
- DAN 312 Advanced I Dance Studies III (3-4) II**  
Continuation of DAN 311. **P: DAN 311 or IC.**
- DAN 321 Advanced I Modern Dance (1)**  
For the student who only wants to take Modern Dance at the very Advanced Level. May be repeated to a total of three credit hours. **P: DAN 221 or IC.**
- DAN 331 Advanced I Tap/Jazz (1)**  
For the student who only wants to take Jazz/Tap at the very Advanced Level. May be repeated to a total of three credit hours. **P: DAN 231 or IC.**
- DAN 341 Advanced I Ballet (1-3)**  
For the student who only wants to take Ballet at the very Advanced Level. May be repeated to a total of six credit hours. **P: IC.**
- DAN 342 Individual Choreographic Project (1)**  
Students are expected to exhibit a high degree of initiative and independence in developing their unique methods, forms, and style of choreography. Project culminates in performance. May be repeated to a total of two credit hours. **P: IC.**



- DAN 355 Lighting (3) II** (Same as THR 355)  
Fundamentals of electricity, color in light, tools, equipment and practical application of the elements. **P: THR 153 or IC.**
- DAN 383 Summer Session Workshop in Advanced Dance I (1-3) S**  
Classical ballet, pointe, modern dance, jazz, and character dance technique classes are supported by music for dance. Guest faculty and workshop emphasis vary from year to year. **P: IC or audition.**
- DAN 393 Advanced I Classical Ballet (1-3) I, II**  
Advanced study of Classical ballet. May be repeated to a total of six credit hours. **P: DAN 341 or IC.**
- DAN 395 Directed Independent Study (1-3) I, II**  
Course designed to allow the individual student with a particular interest in dance to pursue that interest under faculty direction. May be repeated to a limit of six hours. **P: IC.**
- DAN 398 Performance—Third Year (1) II, S**  
(Required of Dance minors). Student to perform dancing roles during the semester or year. One credit represents two semesters of work. Application must be made to the department. May be repeated to a total of two credit hours. **P: DC.**
- DAN 403 Teaching Dance to Children — Practicum I (2) OD**  
Supervised teaching to selected children's ballet classes and assigned observation of teaching techniques. **P: DAN 303 and 304 or IC.**
- DAN 404 Teaching Dance — Practicum II (2) OD**  
Supervised teaching of selected dance classes and assigned observation of teaching techniques. **P: DAN 403.**
- DAN 410 Advanced II Dance Studies I (3-4) I**  
The study of Modern and Ballet or Tap/Jazz and Ballet at the very advanced level. **P: DAN 312 or IC.**
- DAN 411 Advanced II Dance Studies II (3-4) II**  
Continuation of DAN 410. **P: DAN 410 or IC.**
- DAN 412 Advanced II Dance Studies III (3-4) II**  
Continuation of DAN 411. **P: DAN 411 or IC.**
- DAN 421 Advanced II Modern Dance (1)**  
For the very advanced student taking Modern class. May be repeated to a total of three credit hours. **P: Instructors consent or DAN 321.**
- DAN 431 Advanced II Tap/Jazz (1)**  
For the very advanced student taking Jazz/Tap class. May be repeated to a total of three credit hours. **P: IC or DAN 331.**
- DAN 441 Advanced II Ballet (1-3)**  
For the very Advanced student taking ballet class. May be repeated to a total of six credit hours. **P: IC or DAN 341.**
- DAN 483 Summer Session Workshop in Advanced Dance II (1-3) S**  
Classical ballet, pointe, modern dance, jazz, and character dance technique classes are supported by music for dance. Special classes in the study of the Royal Academy of Dance (London) syllabus will be offered if there is sufficient demand. Guest faculty and workshop emphasis vary from year to year. **P: IC.**
- DAN 492 Advanced II Ballet (1-3) I, II**  
Advanced ballet. This course may be repeated for a total of six credits. **P: DAN 412, 441, or IC.**
- DAN 493 Advanced II Ballet (1-3) I, II**  
Advanced ballet. This course may be repeated for a total of six credits. **P: DAN 492 or IC.**
- DAN 498 Performance — Fourth Year (1) II, S**  
(Required of Dance minors). Student required to perform dancing roles in two public dance performances. Required of Dance minors. One credit represents two semesters of work. Application must be made to the department during the first two weeks of the preceding semester. May be repeated to a total of two credit hours. **P: DC**

# ECONOMICS

*Professors Allen, Goss and Murthy; Associate Professors Fitzsimmons and Jorgensen (Chair); Assistant Professor Deskins and Knudsen; Professor Emeritus Nitsch; Associate Professor Emeritus Funk.*

*Requirements for Economics as the Field of Concentration - see page 233.*

- ECO 203 Introductory Microeconomics (3) I, II, S**  
Nature of economics and the economic problem. Principles and problems of resource allocation and income distribution in a market economy with special reference to the American economic system; basic microeconomics of the household, firm and product and factor markets. Open to all students who have completed a minimum of 15 semester hours of college credit.
- ECO 205 Introductory Macroeconomics (3) I, II, S**  
Microeconomics versus macroeconomics; major macroeconomic problems in an open economy. Measurement, analysis, and control of the overall levels of income, production, employment, and prices with a focus on the modern U.S. economy; monetary, fiscal and related policies for economic growth and stability. **P: ECO 203.**
- ECO 303 Intermediate Microeconomics (3) I**  
Further analysis of resource allocation and income distribution. The individual household and market demand; market supply and production/cost relationships. Price and output decisions of firms in different types of market structures; factor market relationships. General equilibrium analysis and welfare economics. **P: ECO 205; MTH 141 or 245; Jr. stdg.**
- ECO 305 Intermediate Macroeconomics (3) II**  
Further analysis of the measurement, determination, and control of national income and product and the aggregate levels of employment and prices; problems of, and policies for, economic growth and stability. **P: ECO 205; Jr. stdg.**
- ECO 315 Money and the Financial System (3) I**  
Analysis of the functions of money; U.S. monetary and banking system and the role of financial markets; monetary policy, price level, interest rates, national income, international finance, and integration with fiscal policy. **P: ECO 205; Jr. stdg.**
- ECO 318 Economics of Public Finance (3) OD**  
Theoretical and applied aspects of public budgetary management. Public budgets and their relation to the overall level of economic activity, resource allocation, and income distribution. **P: ECO 205; Jr. stdg.**
- ECO 353 Environmental Economics (3) OD (Same as EVS 353)**  
The application of economic analysis to environmental issues. Emphasis on global environmental problems and policies and environmental problems and policies that are common to all nations. This course is not open to Economics majors or students registered in the College of Business Administration. **P: Jr. stdg.**
- ECO 408 Current Issues in Social Economics and Political Economy (3) OD**  
Selective examination of current socioeconomic problems confronting both developed and developing countries and the world at large in light of the major politico-economic philosophies of the day. **P: ECO 205 or 301; Jr. stdg.**
- ECO 413 Market Power and Antitrust Policy (3) OD**  
Study of the economic and legal forces affecting the evolution and performance of large firms in concentrated markets in the United States. Focus on the structure, conduct, and performance of concentrated industries and the role of the antitrust laws in regulating behavior in these industries. **P: ECO 205; Jr. stdg.**
- ECO 418 Econometrics (3) OD**  
Application of economics, mathematics, and statistics to the quantification of economic relationships. Intensive use of computer. **P: Jr. stdg.; ECO 205; BUS 229 or equivalent.**
- ECO 423 Transportation Economics and Policy (3) OD**  
Relationship of transportation to the national economy and to the business sector. Focus on principles of transportation economics, government regulation, passenger and freight transport, and such urban policy issues as energy and environment. **P: ECO 205; Jr. stdg.**

- ECO 433 Regional Economic Analysis (3) OD**  
Examination of regional economic problems and solutions as they relate to public policy initiatives. Course consists of theory development and empirical testing with statistical models. Emphasis on the use of the most recent advancements in computer hardware and software. **P: ECO 205; BUS 229 or equiv.**
- ECO 443 Labor Economics (3) OD**  
The study of labor market theory and policy. The relevant theoretical analysis of labor demand and supply. Analysis of current labor market policies and institutions including discrimination, unemployment, immigration, minimum wages, and unions. **P: ECO 205; Jr. stdg.**
- ECO 479 Seminar in Economics (3) I or II**  
Exploration and analysis of selected problems, topics, and issues in today's economic environment. Course content changes from semester to semester. This course is repeatable as long as topic differs (12 credits). **P: Jr. stdg.**
- ECO 493 Directed Independent Readings (1-3) I, II**  
Directed readings course investigating theory and problems in the field of economics. Limited to students who want to develop a more in-depth knowledge of a subject beyond the regular course coverage and who have a GPA of 3.0 or better. May be repeated for credit to a limit of six hours. **P: Sr. stdg.; DC and Dean's approval.**
- ECO 497 Directed Independent Research (1-3) OD**  
Supervised independent research on topics in theoretical/applied economics. Limited to students who want to develop a more in-depth knowledge of a subject beyond the regular course coverage and who have a GPA of 3.0 or better. May be repeated for credit to a limit of six hours. **P: Sr. stdg.; DC and Dean's approval.**
- ECO 508 Development of Political Economy (3) OD**  
Evolution of economic doctrines and analysis from biblical and Graeco-Roman origins to modern times, with an emphasis on "orthodox" or "mainstream" schools and developments and critical movements and departures therefrom. **P: Jr. stdg.; ECO 205 or equivalent for Graduate students.**
- ECO 513 Health Economics (3) OD**  
Economic concepts and their application to the health services industry. Addresses demand, supply, distribution, utilization of resources, market theory and analytic techniques including cost-benefit and cost-effectiveness analysis. **P: Jr. stdg. ECO 205 or equivalent for Graduate students.**
- ECO 518 Comparative Economic Systems (3) OD**  
Analysis of modern variants of capitalism and socialism in light of the basic problems and principles applicable to all social economies. Fulfills the College of Business Administration requirement for an international course. **P: Jr. stdg.; ECO 205 or equivalent for Graduate students.**
- ECO 528 International Economic Development (3) II**  
Contemporary theories of economic development and their relationship to the continuing problems of unemployment, income distribution, population growth, urbanization, and economic growth in the Third World. Fulfills the College of Business Administration requirement for an international course. **P: Jr. stdg.; ECO 205 or equivalent for Graduate students.**
- ECO 538 International Economics (3) I**  
Basic theory of inter-regional and international trade; analysis of the international economy, including the institutions, procedures and policies of world trade and finance. Fulfills the College of Business Administration requirement for an international course. **P: Jr. stdg.; ECO 205 or equiv. for Graduate students.**

Graduate-level courses offered by the Department of Economics are listed in the Graduate School issue of the *Creighton University Bulletin* under the headings Business Administration (MBA) and Economics.



## EDUCATION

*For the Education Program of Study, please refer to page 126.*

- EDU 101 College Major Selection and Career Planning (3) I, II**  
This course will assist the student in understanding the essential elements of selecting a college major and how those various majors fit into specific careers. The course will also concentrate on career exploration and the developmental process. **P: Freshman and sophomore stdg. only.**
- EDU 103 American Education and the Interactive Process (3) I, II**  
Course, both lecture and laboratory oriented, provides an approach to teacher education that includes an opportunity for students to acquire a basic understanding of the history and philosophy of education and to become involved in interacting and role playing in problem-solving situations. Emphasis on cultural diversity and human relations characterize this course.
- EDU 109 Skills for Academic and Career Success (1) I**  
Designed to orient and teach the student how to use the resources available on campus to increase academic and career success. Includes an orientation and tour of the campus including Jesuit mission, an orientation to the library and library technology, the Writing Lab, campus computer resources and computer basics including: e-mail, the web, HTML basics, P.A.L.S. and Microsoft Word. Students will complete a career assessment inventory, learn about career development and exploration, adult learning styles and test-taking strategies. **P: UC students only.**
- EDU 131 Literature for Children (3) I, II**  
Study of children's literature, pre-primary through junior high; history; types; the contemporary scene; extensive required readings.
- EDU 207 Educational Psychology (3) I, II**  
Application of psychological principles in promoting the learning of individuals and groups. Emphasis on motivation, theories of learning, transfer of training, development and measurement of intelligence and achievement. Students must register for both EDU 207 and 210. A total of 35 clock hours of K-12 classroom aiding required in conjunction with EDU 207 or 210. **P: EDU 103; CO: EDU 210.**
- EDU 209 Physical Education in the Elementary School (3) I, II**  
Organizational and instructional techniques for elementary school physical education activities. Specific emphasis on dance, games, and educational gymnastics. Combination of lecture and laboratory sessions. **P: EDU 103, 207, 210, and DC.**
- EDU 210 Child and Adolescent Development (3) I, II**  
An overview of maturation in childhood and adolescence focusing on individual differences and similarities in biological, social, cognitive, and affective development from the perspectives of psychology, sociology, and anthropology. Emphasis on processes that have practical application for teachers and parents. **P: EDU 103; CO: EDU 207.**
- EDU 242 Computer Related Technologies in Teacher Education (1) I, II**  
Introduction to computer related technologies in the elementary classroom. Designed to give students a working knowledge of technologies currently being used in schools as curriculum enhancers and productivity tools. **P: EDU 103, DC.**
- EDU 275 Introduction to Peer Education (3)**  
Introductory course in the conceptualization, development, and practical application of innovative outreach programming to students in an educational setting. Emphasis on presentation development in such areas as interpersonal relationships, personal development, relationships, health and wellness issues, stress management, alcohol and drugs and leadership development. **P: IC.**
- EDU 301 Methods of Teaching Language Arts in Elementary School (3) I, II**  
Emphasizes content and methods in teaching language arts in elementary and middle school. Students complete a minimum of 32 hours of practicum in a school classroom (EDU 301/311). **P: EDU 103, 207, 210, Adm. to Dept.; CO: EDU 311.**
- EDU 302 Methods of Teaching Social Studies in Elementary School (3) I, II**  
Emphasizes content and methods in teaching social studies in elementary and middle school. **P: EDU 103, 207, 210; Adm. to Dept.**

- EDU 303 Methods of Teaching Mathematics in Elementary School (3) I, II**  
Emphasizes content and methods in teaching mathematics in elementary and middle school. Students complete a 25-hour practicum (EDU 303/304). **P: EDU 103, 207, 210, Adm. to Dept.; CO: EDU 304.**
- EDU 304 Methods of Teaching Science in Elementary School (3) I, II**  
Emphasizes content and methods in teaching science in elementary and middle school. Students complete a 25-hour practicum (EDU 303/304). **P: EDU 103, 207, 210, Adm. to Dept. CO: EDU 303.**
- EDU 311 Teaching of Reading (3) I, II**  
Designed to assist in understanding the process of developmental reading and to acquaint the student with the newest as well as the traditional tools for teaching reading. **P: EDU 103, 207, 210, Adm. to Dept; CO: EDU 301.**
- EDU 315 World Geography (3) I, II**  
World patterns of land and water distribution, landforms, climatic regions, population and natural resources, socio-economic implications. Meets CORE requirement for Global Studies. **P: EDU DC.**
- EDU 320 Leadership: Theories, Styles, and Skills (3) OD (Same as COM 320)**  
Course designed to offer participants an opportunity to gain a working knowledge of leadership theories and group dynamics. Designed to develop and improve leadership skills and to learn how to apply these skills in a practical setting. **P: Jr. stdg. or IC.**
- EDU 341 General Methods in Secondary Teaching (3) I, II**  
This course introduces students to the general principles of teaching in a secondary school. The course addresses planning for instruction, teaching methods, and assessing student achievement. Students serve as teacher aides two afternoons a week for a total of 25 hours. **P: EDU 103, 207, 210; Jr. stdg, Adm. to Dept. CO: EDU 342, 525.**
- EDU 342 Technology Laboratory in Secondary Education (1) I, II**  
Development of skills in computer-related technology as curriculum enhancers and productivity tools for teaching and learning in secondary schools. **P: EDU 103, 207, 210; Jr. stdg. CO: EDU 341.**
- EDU 451 Elementary School Observation and Student Teaching (3-14) I, II (Not in S)**  
Practical experience in the observation and conduct of classroom teaching and related activities. This experience is obtained under the immediate supervision of a fully experienced cooperating teacher and a University supervisor. Application to the Director of Field Experiences for all student teaching must be made before February 1 for the Fall Semester and October 1 for the Spring Semester. The number of credit hours must be approved by the Director of Field Placement. **P: EDU 301-304 and 311, EDU 525; Sr. stdg; CO: EDU 453.**
- EDU 453 Seminar in Elementary School Student Teaching and Observation (2) I, II**  
Student teachers deal with issues of physical and mental wellness, communication with families and communities, applications, portfolios, interviews, and relevant teaching concerns. **CO: EDU 451.**
- EDU 454 The Role of the Professional Educator in Establishing a Learning Environment (1) I**  
This course offers students a realistic experience and understanding of the roles of both the professional educator and support staff in the school community; the importance of creating structure in the classroom/learning environment; and gain insight regarding how a school year is initiated. **P: EDU 301/311 or 303/304.**
- EDU 463 Organizational Assessment (3) AY (Same as COM 463, SOC 463)**  
Workshop evaluating characteristics of organizations (including schools and service organizations). Practical training in assessing the effectiveness of such interventions as curriculum, training and development, and personnel. Special emphasis on planning, conducting, and interpreting surveys; developing questionnaires, interpreting results, and writing final reports. **P: COM 203.**

- EDU 488 Personal and Spiritual Dimensions of Leadership** (3) OD (Same as COM 488, SRP 488, THL 488)  
The purpose of the course is to give students the opportunity to engage in introspection and examination of their personal belief and value systems as it relates to leadership. The course begins from the assumption that leadership is “a journey that begins within” and examines the relationship between leadership theory and Christian spirituality. Biographical examples will be analyzed; biographies will be drawn from diverse fields such as health, science, business, government, sports and education. **P: Sr. stdg.**
- EDU 493 Directed Independent Readings** (Credit by arrangement) OD  
May be repeated to a limit of six hours. **P: DC.**
- EDU 495 Directed Independent Study** (Credit by arrangement) OD  
May be repeated to a limit of six hours. **P: DC.**
- EDU 497 Directed Independent Research** (1-3) OD  
Student-initiated project under direction of a faculty member. May be repeated to a limit of six hours. **P: DC.**
- EDU 500 Remedial Reading** (3) II, S  
Focus of the course is on meeting the variety of individual educational needs that confront any teacher of reading. Techniques, methods, materials, and organizational systems that can be used within the framework of daily instruction. Students participate in a practicum during class. **P: EDU 311.**
- EDU 501 Psychology of Exceptional Children** (3) S  
A multidisciplinary and life span approach to the study of persons with differences. **P: Jr. stdg.**
- EDU 503 Foundations of Education** (3) S  
This course serves as an introduction to American education. Both lecture and laboratory oriented, the course provides an approach to teacher education that includes an opportunity for students to acquire a basic understanding of the history and philosophy of education and to become involved in interacting and role playing in problem-solving situations. Emphasis on cultural diversity and human relations characterizes this course. **P: EDU DC.**
- EDU 505 Methods and Strategies for Working With Families and Support Personnel for Exceptional Children and Youth** (3) I (Same as SWK 505)  
Course designed to address the needs of families of exceptional children and youth and train the support personnel who work with exceptional children. **P: EDU 501; Jr. stdg.**
- EDU 510 Growth and Development of Children and Adolescents** (3) S  
This survey course covers the theory and research literature of child and adolescent development, beginning at conception and ending in late adolescence. Physical, cognitive, language, motor, personality, social, affective, moral, and spiritual development are considered as the course seeks to prepare students for roles in P-12 schools. **P: DC.**
- EDU 515 An Introduction to Special Education: Field Experience** (3) I, II  
An introductory course designed to provide knowledge of different disabilities, special education law, and procedures for referral, identification, and placement of students with disabilities. Aiding with special education students in schools is also required. **P: IC.**
- EDU 517 Mental Health Intervention Strategies for Children and Adolescents** (3) OD  
A theoretical and applied analysis of emotional disorders in children and adolescents which focuses on the identification and assessment of psychiatric disorders and intervention strategies.
- EDU 520 Foundations of Catholic Education** (3) S  
Course designed to trace the history and philosophy of Catholic education, elementary school to university, as it has evolved through the centuries. The focus will be on the concept of “Catholic identity” of schools as church leaders and scholars throughout history have interpreted it. Church documents will serve as the main text for the course. The culmination will be a project whereby students apply theory to educational practice in the Catholic school setting. **P: Jr. stdg.**

- EDU 525 Procedures for Including Students with Mild/Moderate Disabilities in the Regular Classroom (3) I, II**  
 Course designed to acquaint the regular elementary or secondary classroom teacher with the characteristics of students with mild/moderate disabilities. Discussion of diagnostic and remedial techniques for students with disabilities in the general classroom. Students complete a 15-20 hour practicum under supervision of a special education teacher. **CO: EDU 301/311 or 303/304 or 341 or 551.**
- EDU 526 Multicategorical Methods for the Mildly Handicapped (3) I**  
 Special methods and materials in teaching and testing the slow learner or students with mild disabilities in the elementary classroom; the curriculum, educational expectations, and organizational plans designed to meet the needs of the various levels from pre-school through pre-vocational are examined. **P: Jr. stdg.; EDU 515 or EDU 525.**
- EDU 527 Diagnostic and Prescriptive Teaching of the Mildly and Moderately Handicapped Child (3) II**  
 Techniques for assessing the learning processes, style and knowledge of students with mild/moderate disabilities. Designed to teach the student how to formulate instructional plans and how to teach students with disabilities in a diagnostic and prescriptive manner. **P: Jr. stdg; EDU 515 or EDU 525.**
- EDU 528 Speech and Language Development of the Exceptional Child (3) II**  
 Course focuses on teaching techniques for aiding the special child in the acquisition of communication skills. Normal speech and language development is contrasted with the language and speech of exceptional children. **P: EDU 515 or EDU 525, Jr. stdg.**
- EDU 529 Seminar in Consultation and Collaboration Strategies (3) II**  
 Designed to teach skills and techniques in consultation, collaboration, and teaming with school professionals, parents, support services, and the community. **P: EDU 515 or EDU 525.**
- EDU 530 Elementary School Observation and Student Teaching the Mildly/Moderately Disabled (3-12) I, II (Not in S)**  
 Practical experience in the observation and conduct of classroom teaching and related activities for the mildly/moderately handicapped. This experience is obtained under the immediate supervision of a fully experienced cooperating teacher and a University supervisor. Application to the Director of Field Experiences for all student teaching must be made before February 1 for the Fall Semester and October 1 for the Spring Semester. The number of credit hours must be approved by the Director of Field Placement. **P: EDU 451, 452, or initial teaching certificate; Sr. stdg.**
- EDU 531 Current Trends in Teaching Mathematics and Science K-8 (3) OD**  
 Designed to provide information for teachers K-8 on recent trends in the teaching of mathematics and science with emphasis on new standards by the National Council for Teachers of Mathematics standards and the National Science Education Standards.
- EDU 532 Sharing Christian Values: How To Do It In the Classroom (3) OD**  
 The question often confronting teachers in Catholic elementary and secondary schools is, "How can we become more effective in transmitting the values of the Gospel and our own school's philosophy?" Course designed to help teachers clarify their own understanding of faith and Christian values. Consideration given to the question of how teachers of so-called secular subjects can be instrumental in forming the values and faith of students. **P: Jr. stdg.**
- EDU 534 Learning Styles, Self Esteem and Movement (3) OD**  
 Course has three major components: learning styles theory and practice, movement activities which enhance brain integration, and the emotional and developmental needs of children as related to their self-esteem.
- EDU 535 Human Relations and Cultural Diversity (3) OD**  
 Course designed to provide teacher educators with human relations skills and to foster insight into effective communication with diverse racial and/or cultural groups. This course meets the human relations requirement of the Nebraska Department of Education. **P: DC.**

- EDU 536 Human Relations - Attitudes and Skills (1)**  
 Course designed for Catholic School teachers to fulfill the objectives of the Nebraska State Certification requirement relative to Human Relations Training. It requires the development of understanding and knowledge of diversity of cultures, effective responses to dehumanizing biases, and instructional strategies to effect the same development in students. **P: current state certification as teacher or administrator.**
- EDU 540 Secondary School Observation and Student Teaching the Mildly/Moderately Disabled (3-14) I, II, (not in S)**  
 Practical experience in the observation and conduct of classroom teaching and related activities for students with mild/moderate disabilities. This experience is obtained under the immediate supervision of a fully experienced cooperating teacher and University supervisor; scheduled conferences with both are required. Application to the Director of Field Experiences for all student teaching must be made before Feb. 1 for the fall semester and October 1 for the spring semester. The number of credit hours must be approved by the Director of Field Placement. **P: EDU 591, 592, 593, Sr. stdg.or initial teaching certificate.**
- EDU 541 Curriculum Design for English as a Second Language (3) I**  
 This course is designed to provide students with the knowledge and skills necessary for understanding and designing curricular models for P-12 students who are acquiring English as their new language. Students will learn theories of second language acquisition, English as a Second Language (ESL) legislation and issues, models and evaluation of curriculum design, and language assessment. **P: DC.**
- EDU 542 Methods in English Language Learning (3) II**  
 This course is designed to provide students with the knowledge and skills necessary for using appropriate strategies and techniques with P-12 students who are acquiring English as their new language. Students will learn theories of second language acquisition, conduct language assessments, plan and implement lessons using bilingual/bicultural materials, and understand how to work with culturally/linguistically diverse families and interpreters. Students must complete 15 hours of field experience at approved sites in both the elementary and secondary settings. **P: DC.**
- EDU 543 Practicum in English Language Learning (3) OD**  
 This course is the capstone for the teaching endorsement "English as a Second Language". Students will work in a K-12 school setting for a minimum of 15 hours with students whose native language is not English. This course meets the certification requirements of the Nebraska Department of Education for a supplemental endorsement. **P: DC.**
- EDU 548 Teaching Reading in Content Areas in Middle and Secondary Schools (3) I, S**  
 Course designed for junior-high and secondary-school content-area teachers who have had little or no background in the field of teaching reading. Practical concepts, techniques, strategies and activities designed to enable the content-area teacher to develop better a student's reading skills and abilities while utilizing content materials. Offered only in fall semesters. **P or CO: EDU 341, 342, Jr. stdg.**
- EDU 551 Methods of Instruction for Secondary Teaching (3) I, S**  
 This course introduces students to the general principles of teaching in a secondary school. The course addresses planning for instruction, teaching methods, and assessing student achievement. Students practice their skills outside of class through weekly fieldwork experiences in local schools. **P or CO: EDU 503, 510, 583 or DC.**
- EDU 552 Technology Instruction for Secondary Teaching (1) I, S**  
 A course designed for teacher candidates interested in the use of instructional technology. The course content will relate to the ways in which technology can support and enhance the instructional process in education. **P: EDU 503, 510, 583; CO: EDU 551.**
- EDU 553 Current Topics in Instructional Design (3) OD**  
 Principles of applied behavioral analysis and learning theory, development of individualized learning programs and behavior management. **P: DC.**
- EDU 554 Current Topics in Classroom Effectiveness (3) OD**  
 Theory and application of structuring and integrating group learning activities. Employing cooperative learning principles to promote positive interdependence and individual accountability. **P: DC.**

- EDU 555 Teaching Students Responsible Behavior (3) OD**  
 Course designed to give professional educators the theory and skills to teach students how to take responsibility for their own behavior in school. Based on the Work of William Glasser, this course leads participants through a series of learning activities designed to enable them to teach their students the concepts of Control Theory and then to plan and implement a program of Responsibility Training in their classrooms.
- EDU 559 Discipline with Purpose: An Introduction (1) OD**  
 A 10-hour didactic and five hour laboratory introduction to Discipline with Purpose provides a practical and theoretical approach to understanding the difference between discipline and self-discipline. Participants are introduced to 15 self-discipline skills that can be taught developmentally to students in grades K-9. Participants will review and teach lesson plans to their respective students and self-evaluate the effectiveness.
- EDU 560 Discipline with Purpose: Advanced Part II (2) OD**  
 A 20-hour advanced orientation to Discipline with Purpose provides a practical and theoretical approach to understanding the difference between discipline and self-discipline. Participants review classroom management styles as they relate to 15 self-discipline skills that can be taught developmentally to students in grades K-9. The major emphasis of this course is the development of a project that will promote the teaching of self-discipline either throughout the total school or within a classroom.
- EDU 561 Discipline with Purpose: An Introduction (3) OD**  
 A 20-24 hour didactic and laboratory introduction to Discipline with Purpose provides a practical and theoretical approach to understanding the difference between discipline and self-discipline. Participants are introduced to 15 self-discipline skills that can be taught developmentally to students in grades K-9. Lessons developed to teach the skills as well as the utilization of infusion, pre-teaching, and modeling will be field tested. Developing a project that will promote the teaching of self-discipline either throughout the total school or within a classroom is the major emphasis of their course. Participants are expected to have completed a 10-12 hour discipline with Purpose workshop, implemented the concepts for a year and then repeat the 10-12 hour workshop and then complete a special project implementing the program.
- EDU 563 Assessing Organizational Systems (3)**  
 Workshop evaluating characteristics of organizations (including schools and service organizations). Practical training in assessing the effectiveness of such interventions as curriculum, training and development, and personnel. Special emphasis on planning, conducting, and interpreting surveys; developing questionnaires, interpreting results, and writing final reports.
- EDU 576 Special Methods of Teaching Art in the Secondary School (3) I**  
 This course is designed to provide an understanding of the art fundamentals, discipline-based art, and the historical and current significance of art within society and schools. Students will learn about the influence of art in daily life, develop lessons that will enrich the understanding of art for secondary education students, and demonstrate an appreciation and enjoyment of art and art-related activities. **P or CO: EDU 341 and EDU 342 or EDU 551 and EDU 552.**
- EDU 577 Special Methods of Teaching Humanities in the Secondary School (3) I**  
 This course deals with the teaching of English, social studies, and foreign languages in the secondary school. Attention is directed to the selection, organization, and presentation of meaningful materials, as well as assessment of learning. The course meets one of the requirements for secondary teacher certification in the disciplines named. Observation of instructional practice in a school setting integral to the course. **P or CO: EDU 341 and EDU 342 or EDU 551 and EDU 552.**
- EDU 578 Special Methods for Teaching Mathematics and Science in the Secondary School (3) I**  
 This course is designed to provide a variety of opportunities to gain skills in creating appropriate, meaningful, exciting and effective learning situation for secondary school students. To accomplish this, students will become familiar with the philosophies and methods of teaching mathematics and science, will examine curriculum materials, and will design learning experiences. The goal is to foster enthusiasm for teaching mathematics and science and to give the students confidence in their ability to teach their subject matter. **P or CO: EDU 341 and EDU 342 or EDU 551 and EDU 552.**

- EDU 579 Special Methods for Teaching Religion in the Secondary Schools (3)** (Same as THL 579) I  
 Overview of the principles for communicating the Christian message effectively to different age levels with opportunities to observe and put them into practice. The course deals with the objectives and functions of Religious Education in terms of secondary school learning experiences. Attention is directed to the selection, organization, and presentation of meaningful learning materials and selection, use and evaluation of textbooks and related aids. **P or CO: EDU 341 and EDU 342 or EDU 551 and EDU 552.**
- EDU 581 Teaching Students How to Think, Level I (3)** OD  
 A Level I Training Session in the Feuerstein Instrumental Enrichment Program, a classroom curriculum designed to diagnose and correct deficiencies in thinking skills and to help students learn how to learn. **P: Sr. stdg.**
- EDU 582 Teaching Students How to Think, Level II (3)** OD  
 A Level II Training Session in the Feuerstein Instrumental Enrichment Program, a classroom curriculum designed to diagnose and correct deficiencies in thinking skills and to help students learn how to learn. A continuation of EDU 581 at the advanced level. **P: EDU 581.**
- EDU 583 Management Practices for Classroom Teachers (3)** I, II, S  
 Creating and/or maintaining a positive learning environment through techniques of observation, description, measurement and evaluation for optimum student learning. **P or CO: EDU 503.**
- EDU 586 Selected Topics in Education (2-3)** OD  
 Course designed to deal with current theory, research and practices in a specific area, e.g., social studies education. Faculty will provide a subtitle and a brief description for inclusion in the "Schedule of Courses." **P: DC.**
- EDU 587 Methods of Teaching Religion in Elementary School (3)** I, AY (Same as THL 587)  
 The course is designed to prepare students to effective religious educators in Catholic elementary schools. The course content will encompass the four dimensions of religious education: message, community, service and worship. Students will not only become acquainted with methods and materials for teaching religion, but they will also gain experience planning liturgical celebrations. **P: DC.**
- EDU 588 Developing Vocational Skills for the Mildly/Moderately Handicapped Ages 3-21 (3)**  
 Exploration of current, innovative vocational programs for students with mild/moderate disabilities; why and how these programs developed; ways to implement such programs. **P: DC.**
- EDU 590 Teacher Induction (3)** OD  
 Designed to ease the isolation and provide continuity between the theory of pre-service preparation and the realities of teaching. Assistance provided in acquiring additional knowledge and instructional skills, combating the effects of isolation, and becoming integrated into a school community. **P: DC**
- EDU 591 Secondary School Observation and Student Teaching (8-14)** I, II (Not in S)  
 Practical experience in the observation and conduct of classroom teaching and related activities. This experience is obtained under the immediate supervision of a fully experienced cooperating teacher and a University supervisor. Application to the Director of Field Experiences for all student teaching must be made before February 1 for the Fall Semester and October 1 for the Spring Semester. **P: EDU 341-342 or EDU 551-552, EDU 525, EDU 548, 583 and one Special Methods Course from EDU 576-579; Sr. stdg. CO: EDU 593.**
- EDU 593 Seminar in Secondary School Student Teaching and Observation (1)** I, II  
 Student teachers deal with issues of classroom management, communication with families and communities, applications, portfolios, interviews, and relevant teaching concerns. **CO: EDU 591.**

Graduate-level courses (600-700-series courses, open only to graduate students) offered by the Department of Education are listed in the Graduate School issue of the *Creighton University Bulletin*.

# EMERGENCY MEDICAL SERVICES

*Professor Braden (Dean, University College); Assistant Clinical Professor Walker (Medical Director); Assistant Professor Raynovich; Instructor Dean, Miller.*

## **Prerequisites:**

EMS 101 with grade of "C" or higher, and successful completion of challenge examination. Formal acceptance by the EMS Program

## **Additional Requirements:**

Because of the close integral relationship between classroom and field components, students are expected to meet additional clinical requirements and expenses related to health examinations, uniform and transportation to clinical agencies while enrolled in the co-requisite courses for hospital and field training. More detailed information can be obtained from the EMS Education Office at 2514 Cuming St., Omaha, NE. The telephone number is (402) 280-1280.

## **The Field of Concentration:**

All required courses within the EMS Degree program (see page 260). Additional information relating to all requirements within the degree program can be obtained from University College, (800) 637-4279 or (402) 280- 2424.

- EMS 101 Fundamentals of Emergency Medical Services (4)**  
Emphasis on the fundamental principles and practices of emergency care and procedures in the prehospital area. Course based on DOT (Department of Transportation) EMT-Basic Curriculum. **P: American Heart Association in Basic Life Support for Health Care Providers; Immunizations; current CPR certification.**
- EMS 160 Out of Hospital Care Course for Nurses (4)**  
The objective of the DOT curriculum is to improve the quality of emergency care rendered to victims of accidents and illness, the major thrust of the out of hospital Emergency Care Course for Nurses is aimed toward the RN or LPN who wishes to work as an EMT in the field. **P: Current Basic Life Support, Current RN or LPN License.**
- EMS 301 Preparatory (5)**  
Based on the DOT 2000 EMT-Paramedic curriculum includes: The Well Being of the Paramedic, Roles and Responsibilities, Illness/Injury Prevention, Medical/Legal, Ethics, Pathophysiology, Pharmacology, Medication Administration, Therapeutic Communications and Life Span Development. **P: DC.**
- EMS 403 Patient Assessment (3)**  
Based on the DOT 2000 EMT-Paramedic curriculum; includes History Taking, Techniques of PE, Patient Assessment, Clinical Decision Making, Communications, Documentation. **P: DC.**
- EMS 405 Airway Management/Ventilation (1)**  
Based on the DOT 2000 EMT-Paramedic curriculum; includes Airway and Ventilation. **P: DC.**
- EMS 407 Trauma Management (4)**  
Based on the DOT 2000 EMT-Paramedic curriculum; includes Trauma Systems/MOI, Hemorrhage and Shock, Soft Tissue Injury, Burns, Head and Face Trauma, Spinal Trauma, Thoracic Trauma, Abdominal Trauma and Musculoskeletal Trauma. **P: DC.**
- EMS 410 Medical Emergencies I: Respiratory (2)**  
Based on the DOT 2000 EMT-Paramedic curriculum. **P: DC.**
- EMS 411 Special Considerations (3)**  
Based on the DOT 2000 EMT-Paramedic curriculum; includes Neonatology, Pediatrics, Geriatrics, Abuse & Assault, Pts. With Special Challenges and Acute Interventions in CCP. **P: DC.**
- EMS 412 Medical Emergencies II: Cardiac (5)**  
Based on the DOT 2000 EMT-Paramedic curriculum. **P: DC.**
- EMS 413 Operations (2)**  
Based on the DOT 2000 EMT-Paramedic curriculum; includes Medical Incident Command, Rescue, Hazardous Materials and Crime Scene Awareness. **P: DC.**



- EMS 414 Medical Emergencies III: NEAGR (5)**  
Includes Neurology, Endocrine, Allergy/Anaphylaxis, Gastrointestinal, Renal. Based on the DOT 2000 EMT-Paramedic curriculum. **P: DC.**
- EMS 415 Assessment Based Management (1)**  
Based on the DOT 2000 EMT-Paramedic curriculum; includes laboratory sessions designed to test the students overall comprehension of patient management techniques learned throughout the course. **P: DC.**
- EMS 416 Medical Emergencies IV: THEIB (4)**  
Includes Toxicology, Hematology, Environmental, Infectious Disease, Behavioral. Based on the DOT 2000 EMT-Paramedic curriculum. **P: DC.**
- EMS 420 Clinical Practicum I (1)**  
Based on the DOT 2000 EMT-Paramedic curriculum; includes hospital rotations through the Emergency Department, Operating Room, Respiratory Therapy, Critical Care Units, Pediatrics, Labor and Delivery, Psychiatric and Geriatric Units. Emphasis is on Patient Assessment and Management. **P: DC.**
- EMS 421 Field Practicum I (1)**  
Based on the DOT 2000 EMT-Paramedic curriculum; includes practical application of emergency medical services practices in field situations. Specific areas include scene management, patient assessment and treatment, communications, record keeping and interface with treatment facilities and other health care professionals. **P: DC.**
- EMS 422 Clinical Practicum II (2)**  
Based on the DOT 2000 EMT-Paramedic curriculum; includes hospital rotations through the Emergency Department, Operating Room, Respiratory Therapy, Critical Care Units, Pediatrics, Labor and Delivery, Psychiatric and Geriatric Units. Emphasis is on Patient Assessment and Management. **P: DC.**
- EMS 423 Field Practicum II (2)**  
Based on the DOT 2000 EMT-Paramedic curriculum; includes practical application of emergency medical services practices in field situations. Specific areas include scene management, patient assessment and treatment, communications, record keeping and interface with treatment facilities and other health care professionals. **P: DC.**
- EMS 424 Clinical Practicum III (2)**  
Based on the DOT 2000 EMT-Paramedic curriculum; includes hospital rotations through the Emergency Department, Operating Room, Respiratory Therapy, Critical Care Units, Pediatrics, Labor and Delivery, Psychiatric and Geriatric Units. Emphasis is on Patient Assessment and Management. **P: DC.**
- EMS 425 Field Practicum III (2)**  
Based on the DOT 2000 EMT-Paramedic curriculum; includes practical application of emergency medical services practices in field situations. Specific areas include scene management, patient assessment and treatment, communications, record keeping and interface with treatment facilities and other health care professionals. **P: DC.**
- EMS 440 Educational Planning and Assessment for EMS Educators (3)**  
Theories and principles of learning and teaching including development of effective EMS course objectives, lecture outlines, and examinations. Course includes introduction to use of DOT curricula and materials. **P: EMS 101; Must be BLS Instructor. Must show EMT-B Certification or higher.**
- EMS 450 Paramedic Certificate-to-Academic Transition (3-6)**  
Based on the curriculum, experience, and licensure or certification history of the student, as well as a comprehensive assessment conducted by program faculty, this course will focus on updating, complementing, refreshing and renewing the knowledge, psychomotor and affective skills of the student an enhancing the student's critical thinking and scholarly capabilities in the practice of advanced prehospital care. May be repeated to a limit of 18 hours. **P: DC**
- EMS 455 Paramedic Clinical Transition (3-6)**  
Based on the student's prior scope of practice, course curriculum, and the results of a comprehensive assessment, this course will focus on the providing supervised clinical instruction in the hospital and field setting. All currently practiced prehospital clinical skills will b taught to the level of competency. May be repeated to a limit of 18 hours. **P: DC**

- EMS 460 Paramedic Certification Course for Health Care Professionals (6)**  
 Course designed to prepare the currently credentialed critical care health care professional for the assessment, care, transport, and communication requirements of the sick and injured in the out of hospital setting. While giving an active health care professional (R.N., M.D., D.O.) credit for their clinical and educational expertise, this course supplements and augments skills already gained to enable the participant to function as a valuable prehospital team member with both ground and air service programs. After successful completion, the participant will meet eligibility requirements to complete the National Registry credentialing examination for Paramedics. **P: R.N., M.D. or D.O., EMT-Basic certification; two years critical care experience, ACLS provider; trauma and pediatric course certificate.**
- EMS 470 Management of Emergency Medical Systems (3)**  
 Emphasis on knowledge, skills and abilities required of first-line managers of EMS systems including personnel, operations and equipment. **P: EMS 101.**
- EMS 480 Critical Care Paramedic (6)**  
 This course is designed to prepare paramedics to provide advanced critical care during inter-facility transports, including performing advanced clinical patient assessments and providing invasive care beyond the standard scope of advanced prehospital care. Includes modes of transport, flight physiology, barophysiology and transfer considerations, including safety, patient packaging and practice in a closely confined space), airway and ventilation management including surgical airways and ventilators, CPAP and BiPAP, thoracostomy, and chest drainage maintenance, central venous lines, expanded pharmacologic formulary, interpretation of laboratory data, 12-lead ECG interpretation, monitoring and maintaining an IABP, and hemodynamic monitoring. Instruction is provided in both didactic and clinical settings. **P: DC; currently licensed paramedic with two years of active clinical experience or registered nurse with a minimum of one year critical care experience; current Healthcare Provider CPR and ACLS; Trauma course (PHTSL, BTLS, TNCC, OR TNATC); Pediatric course (PALS, PEPP, PPC, OR ENPC); AMLS recommended.**
- EMS 493 Directed Independent Readings (1-3)**  
 May be repeated to a limit of six hours. **P: DC.**
- EMS 495 Directed Independent Study (1-3)**  
 May be repeated to a limit of six hours. **P: DC.**
- EMS 497 Directed Independent Research (1-3)**  
 May be repeated to a limit of six hours. **P: DC.**

## ***ENCUENTRO DOMINICANO***

*For the Encuentro Dominicano Program, please refer to page 130.*

- EDP 361 Social Justice in the Dominican Republic (6) I** (Same as JPS 361, THL 361)  
 A multi-disciplinary study of the history, sociology, politics, economics and religion of the Dominican Republic and the Caribbean. Classroom work is integrated with service-learning and cultural immersion in a context of ethical analyses and reflection. **P: DC only.**

## ENGLISH

*For the English Program of Study, please refer to page 131.*

- ENG 100 Introduction to Composition (3) I**  
Individualized approach to the skills and strategies of expository writing. **P: By placement only.**
- ENG 105 Library Research Skills (1) OD**  
Designed to give the undergraduate student a focused introduction to efficient library research techniques. A search strategy concept forms the basis of the course. Hands-on exercises and semester projects introduce the student to all major forms of reference tools, methods of source evaluation and documentation. Provides preparation for independent term-paper research. Pre- and post-testing assess entry skills and student progress.
- ENG 109 Pharmacy and Health English Review (3) I**  
A review of English forms and skills for selected students in the School of Pharmacy and Health. Open only to students in School of Pharmacy and Health Professions.
- ENG 120 World Literature I (3) I, II (Same as CNE 120)**  
A chronological introduction to Western and non-Western literatures from the ancient world through the Renaissance. The course juxtaposes Greek literature, Roman literature, English literature from the Old English, Middle English, and Renaissance periods with contemporaneous literatures from Asia, the Middle East, and other non-Western cultures.
- ENG 121 World Literature II (3) I, II**  
A chronological introduction to Western and non-Western literatures after the Renaissance to the present, with special units on 18th Century, 19th Century, 20th Century, and non-Western literatures. Works by and about women are incorporated throughout the course. The contemporary non-Western component places particular emphasis on African/African-American and Latin-American/Chicano literature.
- ENG 150 Rhetoric and Composition (3) I, II**  
Emphasis on strategies of composition, including invention, organization and development, sentence and paragraph structuring. Individual sections will each be centered around specific thematic topics.
- ENG 201 Interpreting Texts (3)**  
One of two foundational gateway courses required of all beginning English majors. "Interpreting Texts" stresses as course goals the ways in which literary and critical theory inform the understanding (reading and thinking) and creation (writing and thinking) of texts. **P: ENG 120, ENG 121, ENG 150.**
- ENG 202 Entering a Professional Dialogue (3)**  
One of two foundational gateway courses required of all beginning English majors, "Entering a Professional Dialogue" stresses as course goals an introduction to the range of specialization areas within English Studies and their practices. In addition, students will enter the professional dialogue through formal research and writing in at least one of those specialization areas. **P: ENG 120, ENG 121, ENG 150.**
- ENG 251 Advanced Composition (3) I, II**  
Intensive study of the rhetoric of prose composition, including practice in writing the research paper. **P: ENG 150.**
- NOTE: ENG 120, 121 and 150 or equivalent are prerequisites for ENG 254 and all English courses above 254.*
- ENG 254 Writing About Literature (3) I, II**  
Practice in literary research and in writing the critical essay, together with discussion of contemporary literary theories and practices. **P: ENG 150, 120, 121.**
- ENG 295 Special Projects (3) OD**  
For the non-English major. Usually a CHS course. Requires a university sponsor and written departmental approval.
- ENG 300 Introduction to Creative Writing (3) I, II**  
Introductory practice in narrative and poetic writing.

- ENG 301 Creative Writing: Narrative Forms (3) I**  
Theory and practice of narrative fiction. **P: ENG 300 or consent of Director of Creative Writing.**
- ENG 302 Creative Writing: Poetic Forms (3) II**  
Theory and practice of the poem. **P: ENG 300 or consent of Director of Creative Writing.**
- ENG 305 Personal Values in Creative Writing (3) OD**  
Theoretical and practical exercises in using the writing of poetry, short fiction, short drama, and familiar essays for the development and precise articulation of an organized personal philosophy. **P: Jr. stdg.**
- ENG 310 Writing Strategies for the Organization (3) II (Same as COM 310)**  
Presentation of written communication used in organizations. Topics include preparation of memos and letters, research skills, and the formal report.
- ENG 311 Ethics and the Uses of Rhetoric (3) I (Same as COM 311)**  
Survey of the major works on rhetoric that treat ethics from the time of Plato to the Moderns. **P: Jr. stdg.**
- ENG 312 Mass Media and Modern Culture (3) I, II (Same as AMS 312, COM 312)**  
Examination of the role of film, television, and print media in American life. **P: Jr. stdg.**
- ENG 313 The Essay: Critical and Developmental Reading (3) OD**  
Critical reading of nonfictional prose concentrating on the logic, organization, style, and vocabulary of essays. Especially recommended for pre-law students.
- ENG 314 Explorations of the Essay (3)**  
This course invites students to both study and practice the personal essay, examining this category often called “creative nonfiction” or the “fourth genre.” As both writers and readers, we will consider how identity is represented in our own and others’ texts. **P: ENG 120, 121, 150.**
- ENG 315 Technical and Professional Writing (3) OD**  
Writing in and with technology; patterns of reports and correspondence; professional style and structure.
- ENG 317 Composition Theory and Practice (3)**  
Composition is a field that approaches writing and its teaching as both a means and object of critical inquiry, something best learned by study and by practice. In this course, we will engage competing composition theories, examine and experience a range of writing practices and approaches, and explore problems and possibilities in literacy education. In this certified writing course, you will also have the opportunity to study your own writing process and development.
- ENG 329 American Literature/American Identity (3) OD (Same as AMS 329)**  
Analysis of the treatment of the American identity as it is represented in American literature of the colonial period to the present.
- ENG 330 Introduction to Irish Literature (3) I, SS in Ireland**  
Survey of Irish literature from its beginnings.
- ENG 340 English Literature I: Medieval/Early Renaissance (3) II**  
An historical survey of English literature to 1600.
- ENG 341 English Literature II: Late Renaissance/Neo-Classical (3) I**  
An historical survey of English literature between 1600 and 1800.
- ENG 342 English Literature III: Romantic/Victorian (3) II**  
An historical survey of English literature between 1800 and 1914.
- ENG 350 American Literature I: Beginnings to Civil War (3) II (Same as AMS 350)**  
An historical survey of American Literature from its beginning to 1860.
- ENG 351 American Literature II: 1860-1914 (3) I**  
An historical survey of American literature from 1860 to 1914.
- ENG 352 English and American Literature: 1914 to the Present (3) I**  
An historical survey of English and American writers from 1914 to the present.

- ENG 353 Introduction to Native American Literature (3)**  
The course focuses on several seminal literary texts in the Native American literary tradition as it emerged in the twentieth century. **P: ENG 120, 121, 150.**
- ENG 371 American Literature: Vision and Reality (3) OD**  
Values and ideals in American literature from the Seventeenth Century to the present.
- ENG 380 History and Criticism of Cinema (3) I (Same as ART 380, COM 380)**  
Motion pictures as a distinctive medium of communication and as an art form; film language; film history; film appreciation; critical assimilation of film content.
- ENG 381 Literature and the Environment (3) OD**  
Explores English and American nature writing from the neoclassical era to the present. The course investigates the ways in which different authors have seen and have expressed their relationships to their environments and the human relationship to the natural world in general. The course examines nature writing in a variety of genres—poetry, novels, and non-fiction prose essays. It also covers relevant work from contemporary ecocriticism of literature.
- ENG 389 The Roaring Twenties (3) OD**  
Representative American authors and works from the 1920's. **P: Jr. stdg.**
- ENG 390 Introduction to African Literature (3) I (Same as AFS 390, BKS 390)**  
Contemporary African literature. Relationship between African literature and society, emergence of national and cross-African literatures, issues of cultural conflict, language and oral tradition, and other topics.
- ENG 393 African-American Literature (3) II (Same as AMS 393, BKS 393)**  
A survey of representative African American literature from its inception to the present. The particular representative authors and genres and the historical focus of the course may differ each semester.
- ENG 398 Literature of Francophone Africa (3) OD (Same as AFS 398, BKS 398)**  
Sample of representative Francophone African literature. Nature and functions of this literature, relation between it and society. Impact of non-Western cultural context on Western literary genres.
- ENG 403 Seminar in Creative Writing (3) I, II**  
Small group or individualized attention and practice in the student's chosen genre(s). Designed to allow the student extensive work on an advanced level, the course may be repeated a maximum of three times. **P: ENG 301 or 302; consent of the Director of the Creative Writing Program.**
- ENG 404 Screenwriting (3) AY**  
Workshop in the writing of the feature-length screenplay. Designed to allow the student to do extensive work on an advanced level. **P: ENG 300 or IC.**
- ENG 405 The Thirties (3) OD**  
Intensive study of the literature of the Depression and the New Deal. **P: Jr. stdg.**
- ENG 408(510) Chaucer (3) OD**  
Artistic accomplishments of Geoffrey Chaucer, with particular emphasis on *The Canterbury Tales*. **P: Jr. stdg. or IC.**
- ENG 409(509) Shakespeare (3) (2 on, 1 off)**  
Survey of Shakespeare's background; dramatic analysis of Shakespearean plays. **P: Jr. stdg. or IC.**
- ENG 410 Women in Literature (3) OD (Same as WGS 410)**  
Literary works by and about women. **P: Jr. stdg.**
- ENG 411(511) Milton (3) OD**  
The mind, art, and historical significance of Milton as revealed in his major poetry and prose. **P: Jr. stdg. or IC.**
- ENG 412(512) Studies in Major Authors (3) I, II**  
A study of a major author or group of authors. The particular authors studied will vary each semester. The course may be taken more than once. **P: Jr. stdg. or IC.**

- ENG 420 Utopian Literature** (3) OD  
Examination of utopian models and ideals in selected literary classics, including anti-utopian literature. **P: Jr. stdg.**
- ENG 421(520) History of the English Language** (3) (2 on, 1 off)  
Historical approach to the study of the English language from Old English to Modern English. **P: Jr. stdg. or IC.**
- ENG 422(522) Introduction to Linguistic Studies** (3) OD  
Survey of the history of the English language and an examination of the structure of modern English grammars. **P: Jr. stdg.**
- ENG 425 Popular Literature** (3) OD  
Examination of popular literary forms: detective fiction, science fiction, fantasy, best-sellers, gothic/contemporary romance, western, spy-thriller, horror/supernatural.
- ENG 426(526) Canadian Literature** (3) OD  
Study of the fiction and poetry of major Canadian writers. **P: Jr. stdg.**
- ENG 430(535) Studies in Irish Literature** (3) SS in Ireland  
A study of selected Irish writers and movements presented in historical sequence. Lectures by prominent Irish scholars will be followed by small seminars. **P: ENG 330 or equiv.; Jr. stdg.**
- ENG 431(531) Irish Drama** (3) OD  
The Irish theatre of the past 100 years, its plays and playwrights: Synge, Shaw, Yeats, O'Casey, Behan, et al. **P: Jr. stdg. or IC.**
- ENG 432(532) The Irish Renaissance** (3) (1 on, 2 off)  
Concentrated study of the key figures of the Irish Renaissance: Joyce, Yeats, Synge, O'Casey, especially as these writers treat Irish/Celtic types, themes, and myths. **P: Jr. stdg. or IC.**
- ENG 433(533) Contemporary Irish Literature** (3) (1 on, 2 off)  
A study of major Irish writers since the death of Joyce and Yeats, beginning about 1940 and proceeding to the present. Writers discussed may include, e.g., O'Faolain, O'Connor, O'Flaherty, Clarke, Kavanagh, and more recent writers such as Kinsella, Heaney, Hartnett, and Egan. **P: Jr. stdg. or IC.**
- ENG 434(534) Irish-American Literature** (3) (every other Fall)  
A study of 19th and 20th century fiction, poetry, and drama by American writers of Irish birth or descent, emphasizing the Irishness of their voice and/or material. Authors include John Boyle O'Reilly, Finley Peter Dunne, F. Scott Fitzgerald, John O'Hara, James T. Farrell, Edwin O'Connor, J.F. Powers, and others. **P: Jr. stdg. or IC.**
- ENG 435 Literature, Philosophy and Economics: Critical Representations of Commercial Life** (3) OD (Same as PHL/SRP 435)  
This course will explore how literary, philosophical, and economic texts can reveal basic commercial forms such as the commodity, wage, labor, and capital, whose consequences for social justice we will consider. **P: Sr. stdg.**
- ENG 436(536) Studies in Irish Literary History and Culture** (3) SS in Ireland  
A study of the historical and cultural background to Irish literature. Lectures by prominent Irish scholars will be followed by small seminars and field trips. **CO: ENG 330 or 535; P: Jr. stdg.**
- ENG 438 Literacy and Community: Reading and Writing Toward Social Change** (3) (Same as SRP 438)  
This senior perspective course will allow us to examine literacy as an issue of human and social concern, as we pay particular attention to the relationship among literacy, socioeconomic and political power. Through interdisciplinary academic inquiry and community-based learning, we will: examine competing conceptions of literacy and analyze the social ends each definition serves; reflect on our own literacy histories, assumptions, values, and beliefs; consider our responsibilities as citizens with access to culturally valued literacies; and strive to articulate a cogent personal position as literacy sponsors. Students should plan on completing 10 hours of on-site community-based learning. **P: Sr. stdg.**

- ENG 439 Literacy and Technology: How Technology Shapes Cultural Literacy** (3) OD (Same as SRP 439)  
Students will explore the ways that literacy, technology, and humanity interact. Students will look at the ways that each of these entities affects the others. The course will begin with a historical look at human technological literacy, but the majority of the course will focus on present literacy and technology. **P: Sr. stdg.**
- ENG 442(542) 18th and/or 19th-Century British Novel** (3) OD  
Study of the British novel from Richardson and Defoe to Thomas Hardy. **P: Jr. stdg.**
- ENG 443(543) Modern British Novel** (3) OD  
A study of the British Novel from the First World War through the post Second World War period. Lawrence, Forster, Bowen, Woolfe, Green, and others will be considered. **P: Jr. stdg.**
- ENG 444(544) Modern British Poetry** (3) OD  
A study of British poetry from 1900 to the present. Eliot, Hardy, Housman, Lawrence, and others will be considered. **P: Jr. stdg.**
- ENG 450(550) Contemporary British Literature** (3) OD  
A study of post World War II British Literature. **P: Jr. stdg.**
- ENG 451(551) Modern Novel** (3) OD  
Selected studies in modern long fiction. **P: Jr. stdg.**
- ENG 452(552) Modern Drama** (3) OD  
Study of modern dramatists and dramatic techniques from Ibsen to Ionesco. **P: Jr. stdg.**
- ENG 453(553) Modern Poetry** (3) OD  
Selected studies in modern poetry. **P: Jr. stdg.**
- ENG 460(560) Satire** (3) OD  
A study of various forms and techniques of satire with critical readings in the history and nature of the satirical genre(s); readings in satirical literature from the beginnings to the present; discussion of complex literary theories regarding satiric art. **P: Jr. stdg. or IC.**
- ENG 461(561) Comedy** (3) OD  
Comic theory; varieties of comedy; the comic spirit as an essentially artistic and moral viewpoint. **P: Jr. stdg.**
- ENG 469(569) Modern American Poetry** (3) OD  
A study of 20th century American poetry. **P: Jr. stdg.**
- ENG 470 Seminar in Film Studies** (3) OD (Same as AFS 470, BKS 470, COM 470)  
Topical seminar with topics changing in different semesters. Examination of particular areas of film and popular culture. Topics in different semesters might include detailed examination of a film genre (e.g., the western; science fiction; detective films), or film and cultural studies (e.g., women and film; film and developing nations). May be repeated for credit to a limit of six hours.
- ENG 471(570) Modern American Drama** (3) OD  
Study of modern American drama. **P: Jr. stdg.**
- ENG 472 Alternative Discourse in the Academy** (3)  
We will engage a body of writing that works “within and against” academic discourse, asking how these texts appropriate and challenge academic conventions. We will study both the form and content of these texts, considering the cultural work they do-in and beyond the academy. **P: ENG 120, 121, 150.**
- ENG 473(573) 19th-Century American Novel** (3) OD  
Study of selected American long fiction from Brown to James. **P: Jr. stdg.**
- ENG 474(574) Modern American Novel** (3) OD  
A study of the 20th Century American novel. **P: Jr. stdg.**
- ENG 475(575) Contemporary American Literature** (3) OD  
Study of principal American writings of the post-World War II era. **P: Jr. stdg.**

- ENG 476 Writing and Working for Justice (3)**  
An examination of issues concerning social justice, community problems, and their role as citizens. In a variety of prose writing projects, students will be expected to articulate their sense of how family and community are interconnected and how they are part of the larger community. Students will write about how their assumptions regarding the correctional facility and the inmates match their experiences in the community-based learning. **P:** ENG 120, 121 and 150.
- ENG 477(580) The Elements of Style: Form and Structure in Writing (3) OD**  
Study of the modes and strategies of contemporary prose discourse; includes practice in rhetorical analysis. **P: Jr. stdg.**
- ENG 479 Creative Writing Internship (1-3) I, II**  
Students will gain professional experience in literary writing and/or editing through working in a supervised literary internship on campus or in the community. **P: ENG 301 or 302 or IC.**
- ENG 480 History of Literary Criticism (3) OD**  
A consideration of critical theory and practice from the ancient Greeks to the present. **P: ENG major; Sr. stdg.**
- ENG 481 Special Topics in British Literature (3) OD**  
A consideration of certain historical, aesthetic, and/or philosophical themes or ideas which serve as a means of forming an integrated view of British literature. **P: ENG major; Sr. stdg.**
- ENG 482 Special Topics in American Literature (3) OD**  
A consideration of certain historical, aesthetic, and/or philosophical themes or ideas which serve as a means of forming an integrated view of American literature. **P: ENG major; Sr. stdg.**
- ENG 483 Special Topics in Irish Literature (3) OD**  
A consideration of certain historical, aesthetic, and/or philosophical themes or ideas which serve as a means of forming an integrated view of Irish literature. **P: ENG major; Sr. stdg.**
- ENG 484 Special Literary Topics (3) OD**  
A consideration of certain historical, aesthetic, and/or philosophical themes or ideas that cut across or fall outside the categories covered in Senior Seminars I-IV. **P: ENG major; Sr. stdg.**
- ENG 493 Directed Independent Readings (1-3) I, II, S**  
May be repeated for credit to a limit of six hours. **P: Sr. stdg.; IC.**
- ENG 495 Special Literary Problems (3) OD**  
Study of specialized topics or problems that cut across or do not fit within traditional periods or genres. **P: Jr. stdg.**
- ENG 499(500) Senior Project (3)**  
This course is designed for senior English majors to provide a capstone for work in the major and specialization (if any). Student's will work on their own project - a senior thesis or creative writing project, as appropriate to the student's individual course of study. The project will be directed by a faculty supervisor. Along with the final project, students will also submit a reflective essay examining how their project serves as a culmination to their course of study within the major **P: Sr. stdg. or IC.**

Graduate-level courses (600-700-series courses, open only to graduate students) offered by the Department of English are listed in the Graduate School issue of the Creighton *Bulletin*.



# ENVIRONMENTAL SCIENCES

*For the Environmental Sciences Program of Study, please refer to page 135.*

- EVS 113 Introduction to Atmospheric Sciences (3) I, II, S (Same as ATS 113)**  
Introduction to causes of the weather for science and nonscience majors. Topics covered include cloud identification, factors influencing the development of storm systems; effects of jet streams on storm development; the formation of thunderstorms, tornadoes, and hurricanes; climatic change and human influence on climate and weather systems.
- EVS 114 Introduction to Atmospheric Sciences Laboratory (1) I, II, S (Same as ATS 114)**  
Laboratory designed to familiarize students with analysis techniques in meteorology. Topics include weather observations; weather symbols and coding; map plotting and analysis; and basic forecasting techniques. Students will become familiar with the PCMcIDAS system. Accessing climate and forecast data from the internet is emphasized in select laboratory models. **CO: EVS 113.**
- EVS 210 Surviving on Earth: Geologic Hazards and Society (3) II, AY (Same as ATS 210)**  
An introduction to the geologic processes causing floods, earthquakes, volcanoes, landslides and other natural hazards. The course includes discussion of major events in the geologic and historical record as well as future hazard potential. We will assess the risks humans face in different regions, including local hazards, our contribution to geologic hazards, and how we can minimize and cope with future events. This course is appropriate for both potential environmental sciences majors as well as students in all fields who would like to learn more about the Earth and its effects on our daily lives.
- EVS 307 Demography: World Population Issues (3) II, ENY (Same as ANT 307, SOC 307)**  
This course will provide a sociological examination of the development and evolution of different models of population dynamics from several contemporary cultures. It will place particular emphasis on the assumptions and logical consequences of each of these models. Includes a survey of historical and contemporary trends in population growth, as well as a review of competing perspectives about natural limits to that growth. **P: So. stdg.**
- EVS 333 Environmental Politics and Policy (3) I (Same as PLS 333)**  
An overview of the world's environmental problems from a political perspective. Focuses on the political dynamics that shape environmental policy making. **P: So. stdg.**
- EVS 335 Zoology (4) II (Same as BIO 335)**  
Biological concepts and principles exemplified by both invertebrates and vertebrates with emphasis on animal diversity, morphology, evolution, and ecological relationships. 3R, 3L. **P: BIO 211 and 212.**
- EVS 341 General Botany (4) II (Same as BIO 341)**  
Modern biological concepts and principles exemplified by the plant kingdom with emphasis on plant diversity, taxonomy, and evolution. 3R, 3L. **P: BIO 211 and 212.**
- EVS 351 Microbiology (4), I (Same as BIO 351)**  
Microbiology is the study of organisms too small to be seen with the naked eye. Despite their small size, these organisms are ubiquitous and play important roles in human health, industry, and the functioning of ecosystems. This course is designed to cover a wide range of material in lecture and through laboratory exercises, introducing students to the breadth of microbial diversity and physiology, as well as the basic techniques used in microbiology. 3R, 3L. **P: BIO 211 and BIO 212.**
- EVS 353 Environmental Economics (3) OD (Same as ECO 353)**  
The application of economic analysis to environmental issues. Emphasis on global environmental problems and policies and environmental problems and policies that are common to all nations. This course is not open to students registered in the College of Business Administration. **P: Jr. stdg.**
- EVS 354 Environmental Ethics (3) OD (Same as PHL 354)**  
Critical study of the anthropocentrism-nonanthropocentrism debate and the individualism-holism debate and how they affect each other in the context of the determination of ecological value. If anthropocentrism is in some ways defective, what implications do these defects have for our moral obligations to animals, plants, waters, soil, future generations, species, ecosystems, and the planet? **P: Jr. stdg.; PHL 107 and PHL 250.**

- EVS 355 Environment and Society (3) II** (Same as ANT 355, SOC 355)  
Human societies interact with the natural environments in which they are embedded. An examination of the driving economic, political, cultural, and demographic forces that cause human modification of the natural world, the resulting social and environmental problems and public controversies. A focus on movements and policies related to environmental issues, and the prospects for the emergence of more environmentally “sustainable” societies. **P: So. stdg.**
- EVS 374 Management of Environmental Risk (3) OD** (Same as MGT 374)  
Examination of environmental issues relevant to management decision making. Emphasis on risk analysis related to global/regional and workplace environmental issues. **P: Jr. stdg.**
- EVS 385 The Ecology, Geography and Health of Lakes (4)** (Same as BIO 385)  
A summer field course that examines lakes in the North Central Rocky Mountains regions of the United States. This course is a combination of lectures and field and laboratory studies of the physical, chemical and biological properties of lakes in a landscape context. The effects of human impacts on lake ecology and ecosystem health are emphasized. The course includes field work at lakes and regional field stations in northern Iowa (Iowa Lakeside Laboratory on West Okoboji Lake), the Boundary Waters and Lake Superior in Minnesota, the hyperalkaline Western Nebraska Sandhills, and alpine lakes in the Colorado Rockies (University of Colorado’s Mountain Research Station at Niwot Ridge). **P: IC.**
- EVS 390 Environmental Science (3) II** (Same as BIO 390)  
Course presents a balanced, scientific approach to the study of the environment and stresses the application of ecological concepts within a systems perspective. Topics include ecological concepts, population principles, endangered species and habitats, resources, air and water pollution, environmental health, and global perspectives. **P: BIO 211 and 212 or CHM 205/206.**
- EVS 401 Biometry (4) OD** (Same as BIO 401)  
Introduction to measurement theory as applied to biological studies. Data acquisition, analysis, and display procedures. Introductory statistical methods emphasizing sampling procedures, frequency distributions, measure of central tendency, analysis of regression lines, log dose-response curves (graded and quantal), bioassay. Lectures supplemented by problem-solving sessions. (Qualifies as laboratory course). 3R, 3L. **P: BIO 211 and 212.**
- EVS 435 Field Biology in the Southeastern United States (4) S, AY** (Same as BIO 435)  
Three-week field trip. Exploration of natural communities in the Blue Ridge mountains of North Carolina, the South Carolina Coastal Plain, the Georgia coast and barrier islands, and the tropical environments of southern Florida. Emphasis on organisms and their adaptation to the environment, field collection techniques, and ecological relationships. Students will work from and stay in established biological field stations at Highlands, North Carolina, Sapelo Island, Georgia, Lake Placid, Florida, and Key Largo, Florida. (Qualifies as a laboratory course). **P: One organismal-level or field course in biology or IC.**
- EVS 440 Field Biology of the Desert Southwest (4) S** (Same as BIO 440)  
A field course designed to allow students to study faunal and floral desert adaptations. Students spend 3 weeks living at a field station in San Carlos, Mexico on the Sea of Cortez. Participants utilize field data to determine how small, ectothermic vertebrates utilize external heat sources in order to thermoregulate, culminating in a paper written while at the field station. Bioinventory activities include collecting, preserving and identifying museum quality specimens; trips to nearby Nacapule canyon, night time and day time visits to local tide pools, snorkeling trips including Isla San Pedro and its sea lion colonies. Participating students should be prepared for warm, sunny weather and time both in and out of the water, kayaking and sailing. **P: BIO 212, and IC.**
- EVS 443 Environmental Geology (4) I, AY** (Same as ATS 443)  
An introduction to physical geology designed for environmental science majors. Topics include an examination of rock types, evolution and geological times, soil development and processes, earthquakes and global tectonics. In-class laboratories will be devoted to identification of rock types, soil analysis, and determination of fossil types. **P: So. stdg. or IC.**

- EVS 449 Animal Physiology** (3) II, S (OD) (Same as BIO 449)  
A study of the functions of animals from the cellular to the organ-systems level with emphasis on vertebrate systems physiology. 3R, 3L. **P: BIO 211 and 212; Jr. stdg.**
- EVS 450 Animal Physiology Laboratory** (1) II (Same as BIO 450)  
Laboratory exercises designed to illustrate several physiological processes in animals, including cellular and whole animal metabolism, heart and muscle function, osmoregulation and responses to thyroxine and cold acclimation. **P or CO: EVS 449.**
- EVS 452 Science, Media, and Risk** (3) OD (Same as JMC 452, PHL 452, SRP 452)  
This course examines how science determines environmental and biotechnological risk, how media communicate these risks, and how the public understands risk. The course explores the use of values (as well as the values used in specific cases) by each stakeholder to determine what kind of risk is acceptable. It also explores ethically acceptable decision-making processes, including making the public voice more a part of that process. The course involves reading and discussion online prior to a week-long intensive international workshop during the summer on the issues in Borgholm, Sweden. The course continues on-line after the summer school experience, culminating a writing assignment tailored to the student's skill development and academic/career interest. **P: Sr. stdg.**
- EVS 455 Food, Society and Environment** (3) II (Same as ANT 455, SOC 455, SRP 455)  
Access to food is a universal basic human need. This course considers the social and cultural significance of food, the ecological implications of producing it, and social justice issues that surround its distribution from several disciplinary perspectives. **P: PHL 250 or THL 250; Sr. stdg.**
- EVS 460 Terrestrial Remote Sensing** (4) II, OD (Same as ATS 460)  
This course is an introduction to the techniques of observing the Earth from air- and space-borne instruments. We will cover basic issues of geometry and scale associated with making these measurements, electromagnetic properties of Earth surface metals, the range of instruments used to observe the Earth, and applications of satellite remote sensing to geological and environmental materials. The course will involve an independent research project utilizing remote sensing data and software.
- EVS 480 Internship in Environmental Sciences** (1-3) I, II, S  
An internship designed for students interested in working in an environmental setting in the public or private sector. Students may register for three hours credit for 60 hours of work. Before registering for the internship, students should consult with the director of the EVS program. The internship may be taken for a maximum of six hours. Credit does not count toward a specialization area of the Environmental Science degree. **P: DC.**
- EVS 481 Terrestrial Ecology** (4) I (Same as BIO 481)  
Introduction to the interactions of organisms and the environment, especially the biology of populations, communities, and ecosystems. Individual adaptations, the nature of the environment, population dynamics, and community organization are stressed. Laboratory exercises include field trips to terrestrial habitats. 3R, 3L. **P: BIO 211 and 212.**
- EVS 483 Vertebrate Natural History Lecture** (3) II, S (OD) (Same as BIO 483)  
Lecture series designed to provide students with a modern overview of vertebrate diversity. Lectures encompass ancestry, major adaptive shifts between classes of vertebrates, geographic distribution based on physiological limits, specialized feeding and locomotor modes, courtship patterns, reproductive strategies, and conservation issues. Recommended as useful prior to enrollment in EVS 440 (Field Biology of the Desert Southwest) and for students seeking a general understanding of vertebrate life, or those who are interested in teaching biological sciences. **P: BIO 211 and 212.**
- EVS 484 Vertebrate Natural History Laboratory** (1) II, S (OD) (Same as BIO 484)  
Laboratory exercises that will provide experience in the following areas: dissection of representatives of each major vertebrate class with emphasis on the diagnostic differences between groups; identification and preservation of vertebrate specimens. Field trips are available on a limited basis. **P or CO: EVS 483.**
- EVS 485 Marine and Freshwater Ecology** (3) II (Same as BIO 485)  
An introduction to the community structure, biological production, and physical and chemical properties of aquatic ecosystems. The major features of water columns, benthic substrates, and lotic zones will be reviewed and compared. **P: BIO 211 and 212.**

- EVS 486 Freshwater Ecology Laboratory (1) II** (Same as BIO 486)  
Introduction to methods for analyzing lake, stream, and wetland habitats. Exercises will examine physical and chemical properties, biological production and food chains, and water quality of freshwater ecosystems. **P or CO: EVS 485.**
- EVS 487 Marine Ecology Laboratory (2) II** (Same as BIO 487)  
Direct observation of marine coastal habitats (reefs, sea grass beds, mangrove forests, rocky intertidal zones, and offshore waters) at Roatan Island, Honduras. Exercises in the field and campus laboratory sessions will examine physical and chemical properties; marine organisms and community structure and productivity of marine ecosystems. **CO: EVS 485 or IC; P: BIO 211 and 212.**
- EVS 491 Senior Seminar (1-2) I, II**  
All Environmental Science majors must take this course in their senior year, and must present a seminar on a topic agreed upon by the faculty seminar coordinator and the student's major advisor. Seminars will be presented by faculty and invited outside speakers. May be repeated to a limit of two hours. **P: Sr. stdg.**
- EVS 493 Directed Independent Readings (1-3) I, II, S**  
Assigned readings in the student's area of interest. Course is only an addition to and not a substitution for any portion of the major requirement. May be repeated to a limit of six hours. **P: Jr. stdg.; IC.**
- EVS 495 Directed Independent Study (1-3) I, II, S**  
A program of independent study with emphasis on activities other than laboratory or field research. (Examples include library research or special course attendance). Course is only an addition to and not a substitution for any portion of the major requirement. May be repeated to a limit of six hours. **P: Jr. stdg.; IC.**
- EVS 497 Directed Independent Research (1-3) I, II, S**  
A program of independent study with emphasis on laboratory or field research. Course is only an addition to and not a substitution for any portion of the major requirement. May be repeated to a limit of six hours. **P: Jr. stdg.; IC.**
- EVS 506 Environmental Chemistry and Natural Resources (3) OD** (Same as CHM 506)  
The nature, identification, and quantitative determination of air and water pollutants. Study of natural resources and energy production. Topics covered include the atmosphere, ozone, the troposphere, natural water, acid rain, drinking water, metals, organochlorine compounds and waste management. **P: CHM 205.**
- EVS 513 Microbial Ecology Laboratory (1) II** (Same as BIO 513)  
Microbial Ecology Laboratory will explore the ubiquitous nature of microbial life in common and functionally important habitats such as soils, and in extreme and unusual habitats, such as anoxic sediments and alkaline lakes. The diverse roles played by microbes in biogeochemical cycling will be the central theme of course activities. Trips to field locations including freshwater lakes and native grasslands will be combined with laboratory skills building. Methods for sampling microbial communities, assessment of microbial activity, enrichment culture, and aseptic technique will be emphasized. **P: BIO 211 and 212.**
- EVS 523 Environmental Toxicology (3) II** (Same as BIO 523)  
Principles of environmental tolerance, bioenergetics and nutrition, homeostasis, and toxicology and disease will be developed and related to the organismal and population levels and to comparative responses to environmental disturbance. The course uses a reading/discussion format. 3R. **P: BIO 211 and 212.**
- EVS 533 Physical Climatology and Climate Change (3) I** (Same as ATS 533)  
This course stresses the theories and models of natural climate change and of that induced by human beings. The ethical issues of inadvertent and planned change of climate by humans are raised. Major topics include effects of CO<sub>2</sub> warming (greenhouse effect), ozone depletion; human-induced desertification; acid rain; urban microclimates. Methods of monitoring these systems are stressed relative to an increased world-wide need to limit or prevent human-induced climate changes.

- EVS 541 Atmospheric Diffusion, Air Pollution, and Environmental Impact Analysis (3) I, AY** (Same as ATS 541)  
Survey of the theoretical and practical aspects of diffusion, dispersion, and turbulent transport of pollutants in an atmospheric boundary layer. Includes observational and instrumentation techniques; plume models; regional pollution transport; and diffusion from point, line and area sources. Chemical and physical transformations of the pollutants, precipitation scavenging, and dry deposition are studied. Reviews Federal environmental laws, air quality standards, environmental impact assessments, ethics, and guidelines for writing environmental impact statements. **P: EVS 113 or equiv.**
- EVS 544 Hydrology (3) II, AY** (Same as ATS 544)  
Study of the waters of the earth, especially with relation to the effects of precipitation and evaporation upon the occurrence and character of water in streams, lakes, and on or below the land surface. In terms of hydrologic cycle, the scope of this course may be defined as that portion of the cycle from precipitation to reevaporation or return of the water to the seas. **P: EVS 113 or ATS 231.**
- EVS 548 Introduction to Solar-Terrestrial Environment (3)** (Same as ATS 548)  
Course designed to acquaint the student with the basic phenomenology associated with solar processes and activity, and the impact of these processes upon the earth and its atmosphere. Designed to familiarize the student with the concepts of upper atmospheric energetic processes and their influences upon everyday activities. **P: MTH 246 and PHY 212.**
- EVS 549 Environmental Physiology (3) I** (Same as BIO 549)  
Impact of environmental changes and environmental extremes on animals and their physiological mechanisms. Examines primarily vertebrates and their responses to variations in temperature, pressure, and salinity. Basic physiological principles associated with each adaptive response covered in lecture and reading assignments. **P: BIO 333 or EVS 335 or EVS 483 or EVS 449 or IC.**
- EVS 552 Boundary Layer Meteorology (3) OD** (Same as ATS 552)  
Structure of the boundary layer, surface energy budget, vertical profiles of temperature, humidity and wind, turbulence, Monin-Obukhov theory. Determination of surface heat and moisture fluxes. Some discussion of applications to diffusion and dispersion of substances in the atmosphere. **P: ATS 572 or equiv.**
- EVS 553 Tropical Meteorology (3) I** (Same as ATS 553)  
Characteristics of the tropical atmosphere including convection, boundary layer processes, local and diurnal weather phenomena, meso-scale tropical systems, tropical storm structure, and energetics. This course relies heavily on satellite interpretation of tropical cloud systems. **P: EVS 113.**
- EVS 555 Meteorological Remote Sensing (3) II** (Same as ATS 555)  
First section of the course is devoted to meteorological interpretations of cloud fields as observed from weather satellites. Second section of the course devoted to examination of general and specific applications of remote sensing of the environment. Includes imagery from satellite, ground based, and airborne systems; data analysis and decision methods; multispectral analysis and evaluation of water, terrain, mineral, forest, and soil resources. **P: EVS 113 or IC.**
- EVS 556 Introduction to Physical Oceanography (3) I, AY** (Same as ATS 556)  
Geomorphology of the ocean bottom; properties of sea water; salinity and temperature distributions; major ocean currents and circulations; equations of motion, horizontal wind-driven currents; thermohaline circulations; wind waves and swell.
- EVS 561 Entomology (4) I** (Same as BIO 561)  
Introduction to insect biology with emphasis on the major insect groups. Anatomy, physiology, and behavior of insects and their ecological, agricultural, and medical importance. 3R, 3L. **P: BIO 211 and 212.**
- EVS 566 Climate Theory (3) OD** (Same as ATS 566)  
Theories of global climate and variability. Examination of climate models, including internal and external parameters and feedback mechanisms **P: EVS 113; EVS 561.**
- EVS 571 Animal Behavior (3) I, S** (Same as BIO 571)  
Evolutionary aspects of animal behavior, including physical and physiological bases of behavior, social behavior, behavioral ecology and genetics of behavior. 3R. **P: BIO 211 and 212.**

- EVS 572 Animal Behavior Laboratory (2) II** (Same as BIO 572)  
Introduction to animal behavior research methods using structured observations and experiments in laboratory and field settings. 3L. **P or CO: EVS 571.**
- EVS 573 Cloud Physics and Dynamics (3) OD** (Same as ATS 573)  
Thermodynamic processes which control the development and growth of clouds. Relationship between atmospheric properties and cloud structure. Distribution of condensation nuclei, water droplet spectra. Initiation and growth of cloud hydrometers. Structure of severe storms, radiative effects of clouds. **P: ATS 571.**
- EVS 581 Evolution (4) I, S** (Same as BIO 581)  
Lectures and discussion designed to provide junior and senior students with a broad understanding of the science of evolutionary biology. Organized in three parts, each takes a chronological approach: (A) evolutionary theory, (B) mechanisms of evolution, (C) the implications and consequences of theory and mechanism; and as part of both the lecture and laboratory experience in (C, above) topics in evolutionary medicine will be covered. Laboratory sessions include computer modeling exercises to illustrate the mechanisms of evolutionary changes, an excellent film series, discussion opportunities designated to explore in more depth questions and topics associated with speciation, biodiversity and human evolution as well as a review session prior to each exam. 3R, 3L. **P: One upper-division BIO course or Jr. stdg.**

Graduate-level courses in Environmental Sciences are listed in the Graduate School issue of the Creighton University Bulletin.

## ***EXERCISE SCIENCE***

*For the Exercise Science Program of Study, please refer to page 138.*

- EXS 108 Scuba Diving (1) I, II**  
Instruction in various areas of scuba diving; opportunities to become certified. Students will earn an open-water certificate upon successful completion of the course. Students should expect to pay an additional fee.
- EXS 125 First Aid (2) I, II, S** (Same as ATE 125)  
American Red Cross Responding to Emergencies, Cardiopulmonary Resuscitation and Automated External Defibrillator Certification may be earned. Emphasis on recognizing an emergency and providing care until professional medical help arrives.
- EXS 142 Personalized Weight Training (1) I, II, S**  
Principles, techniques, and participation in weight-training activities for both men and women. Emphasis on improving muscular endurance, strength and flexibility.
- EXS 144 Aerobics (2) I, II**  
Designed to increase cardiovascular fitness, flexibility, and muscular endurance. Includes instruction in high and low impact aerobic dance, step training, kick boxing, circuit training, and aqua aerobics. Lectures over essential fitness concepts are also included. Open to all.
- EXS 151 Beginning Tennis (1) I, II**  
Instructional techniques, analysis, demonstration, and practice in the basic skills of tennis. Includes rules, selection and care of equipment, strategy on the court.
- EXS 152 Intermediate Tennis (1) OD**  
Instructional techniques, analysis, demonstration, and practice in the intermediate skills of tennis. Some advanced strategies and skills. **P: EXS 151 or IC.**
- EXS 156 Beginning Racquetball (1) I, II**  
Instruction in basic skills, strategies, and rules.
- EXS 157 Intermediate Racquetball (1) OD**  
Instructional techniques, analysis, demonstration and practice in intermediate skills of racquetball. Some advanced skills and strategies; **P: EXS 156 or IC.**
- EXS 190 Self Defense Tactics (1) OD**  
Techniques in blocking, striking, and throwing an attacker are taught. Demonstration and discussions on the use of mace, stun gun, firearms, and other weapons are included. Defense to chokes, wrist-grabs, lapel grabs, the hammer lock, bear hug, full nelson and offensive follow-ups are taught. Defenses to club, knife, chain and gun attacks are discussed.

- EXS 192 Beginning Karate (1) I, II**  
Beginning instruction in the martial art of Tae Kwon Do (Karate). Course emphasizes technical execution, discipline, and an insight into the philosophical aspects of Bushido.
- EXS 193 Intermediate Karate (1) I, II**  
An intermediate course of Tae Kwon Do (Karate) designed for men and women who have completed a basic course. Includes advanced blocking, punching, and kicking techniques, combination and breaking techniques, advanced self-defense and sport techniques. **P: EXS 192 or IC.**
- EXS 194 Beginning Hapkido (1) II**  
Beginning instruction in the martial art of Hapkido. Course emphasizes takedowns, throws, restraint, submission and hold techniques, discipline, and the philosophy of Hapkido.
- EXS 195 Introduction to Athletic Training (3) I, II, S (Same as ATE 195)**  
Cognitive and practical experiences designed to introduce basic athletic training principles and skills to students entering the field of sports medicine and other health care careers.
- EXS 240 Designing a Personalized Fitness Program (3) I, II (Same as ATE 240)**  
Assessment of individualized fitness level and the development of a personal fitness program. Lecture topics include physiological testing protocols, the explanation and evaluation of various forms of exercise, training guidelines for aerobic and anaerobic exercise programs and risk factors associated with cardiovascular disease. Two lectures and two activity sessions per week.
- EXS 320 Human Physiology (4) I, II, S (Same as ATE 320)**  
An undergraduate human physiology course for Exercise Science and Athletic Training students and others interested in allied health professions. The course includes detailed coverage of the human organ systems and focusing on normal function, but also incorporating discussion on physiological changes with physical activity and certain diseases. Information is presented at all levels from the sub-cellular level to the entire organism. **P: BIO 211 or 212; CHM 203/204 or 205/206; EXS or AT major or IC.**
- EXS 331 Human Anatomy (4) I, II, S (Same as ATE 331)**  
Provides students with a basic knowledge of the structure and function of the human body. Lecture topics range from anatomical terminology to comprehensive overviews of the individual systems. Dissected cadaver specimens and anatomical models are used as learning aids. **P: BIO 211 or 212; CHM 203/204 or 205/206; EXS or AT major or IC.**
- EXS 334 Biomechanics (3) I, II (Same as ATE 334)**  
Introduction to the biomechanics of human movement. Study of the musculo-skeletal system with special emphasis on the application of physical laws and principles that govern movement of the body. **P: ATE 331, EXS or AT major, or IC.**
- EXS 335 Exercise Physiology (4) I, II (Same as ATE 335)**  
Study of the major physiological systems in the body and their response to exercise and exercise programs. Includes application of physiological concepts to physical training. **P: BIO 211 or 212; CHM 203/204 or 205/206, EXS 240 and EXS 320 or IC; EXS or AT major.**
- EXS 350 Nutrition for Health and Sports Performance (3) I, II (Same as ATE 350)**  
Considerable information is provided regarding the six classes of nutrients. Lectures focus on applying knowledge in nutrition into a framework upon which performance and conditioning strategies can be based or from which recommendations can be made for health enhancement. **P: BIO 211 or 212; CHM 203/204 or 205/206; EXS 335; EXS or AT major or IC.**
- EXS 401 Exercise Prescription (3) I, II**  
Case study scenarios, preliminary health screening, risk stratification, fitness evaluations, and the design of exercise prescriptions for both general and special populations. Lecture topics include acute and chronic physiological responses to exercise, cardiorespiratory responses, resistance training, weight management, coronary heart disease and an introduction to metabolic equations and caloric expenditure. **P: EXS 142, EXS 331, EXS 335, EXS Major or IC.**

- EXS 407 Basic Statistics and Research Design (3) I, II**  
 Designed to develop skills to read and interpret research reports effectively. Principles of experimental research design utilized in exercise science will be discussed. General statistical concepts will be introduced, including central tendency, variance, correlation, regression, and means comparison. Students will develop a research proposal and presentation based on a topic in exercise science or related field. **P: EXS 350; EXS or AT Major or IC.**
- EXS 420 Essentials of Strength and Conditioning (3) I, II**  
 Theory and practice of designing and administering strength training and conditioning programs for athletes and non-athletes, including special populations. Course content from exercise physiology, anatomy, biomechanics, nutrition and exercise prescription is used in the formulation of programs; instruction of strength training exercises is provided. **P: EXS 142, EXS 331, EXS 335, EXS 401, EXS or AT major or IC.**
- EXS 489 Laboratory Methods and Procedures (4) I, II**  
 Course designed to develop practical skills and knowledge in laboratory technique, procedures, protocols and exercise prescription in the areas of cardiorespiratory fitness, body composition, muscular fitness, flexibility and basic EKG interpretation. Additional laboratory testing will be required outside of regular class time. **P: EXS 401, EXS major or IC, and current CPR certification.**
- EXS 491 Exercise Leadership and Program Administration (3) I, II, S**  
 Integrates knowledge and experiences from EXS courses and provides opportunities to critically discuss and analyze career issues and opportunities associated with health/wellness/fitness-related professions. Emphasis is given to acquainting students to professionals in EXS-related professions and strategies for being successful. **P: EXS 401 or 489, EXS major or IC.**
- EXS 492 Exercise Science Internship (3-5) I, II, S**  
 Students are to spend at least 20 hours per week working in one of several area as such as: cardiac or pulmonary rehabilitation; strength training and conditioning; employee/corporate fitness; physical therapy; or athletic training. Students will assume positions of responsibility and will demonstrate appropriate leadership skills and knowledge. Placement of students will be based upon course-work selection, grade point, and demonstrated leadership, and will be determined by the Chair of the Department. Students who want to commit to 200, 250 or 300 contact hours should register for 3, 4 or 5 credit hours, respectively. **P: EXS 491 or IC.**
- EXS 493 Directed Independent Readings (1-3) I, II, S**  
 May not be repeated. **P: Jr. or Sr. stdg.; EXS Major; IC.**
- EXS 495 Directed Independent Study (1-3) I, II, S**  
 May not be repeated. **P: Jr. or Sr. stdg.; EXS major; IC.**
- EXS 497 Directed Independent Research (1-3) I, II, S**  
 Designed to assist students in demonstrating the knowledge and skills associated with research techniques and methods, including testing protocols, statistical design, review of literature, and discussion of results. May not be repeated. **P: Jr. or Sr. stdg.; EXS 407; IC.**



# FINANCE

*Professor Wingender; Associate Professors Gasper and Jorgensen (Chair); Assistant Professor Garcia-Feijoo; Adjunct Associate Professor Sherman; Adjunct Instructor LeFebvre.*

*Requirements for Finance as the Field of Concentration — see page 234.*

- FIN 301 Managerial Finance (3) I, II, S**  
Basic principles and techniques of financial management, including investment, financing, and working capital decisions. Emphasis on time value of money. Presentation of current theory and modern techniques. **P: ACC 202; ECO 205; BUS 229 or equivalent.**
- FIN 325 Investment Analysis (3) I, II**  
Principles of investment; analysis of selected investment alternatives including real estate, precious metals, coins, stamps, art, and commodities; evaluation of risks and rates of return; valuation of stocks, bonds, and options; capital asset pricing model and portfolio considerations. **P: FIN 301; Jr. stdg.**
- FIN 331 Real Estate Principles and Practices (3) OD**  
Study of basic real estate principles, including the nature of real estate markets, the financing of real estate investments, real estate law, and real estate management. **P: Jr. stdg.**
- FIN 340 Principles of Insurance (3) I or II**  
Analysis of insurance as a method of dealing with risk; business and personal risk management; emphasis upon life, health, property, liability, and social insurance contracts. **P: Jr. stdg.**
- FIN 343 Social Insurance and Economic Security (3) I or II**  
Analysis of fundamental risks and available public and private measures against economic insecurity. Social security, workers' compensation, unemployment compensation, and public assistance will be explored in detail. **P: Jr. stdg.**
- FIN 350 Financial Statement Analysis (3) I or II**  
This course emphasizes the fundamental techniques of financial statement analysis from both an investor equity and creditor viewpoint. The course builds upon a review of accounting and finance concepts, covering the interpretation, adjustments and analysis of financial accounting information, including the balance sheet, income statement and statements of cash flows. It also examines the use of accounting information for investment and credit decisions. **P: FIN 301.**
- FIN 361 Financial Institutions Management (3) OD**  
Analysis of the principles underlying decision-making in the administration of financial institutions, including banks and insurance companies, loan and investment portfolio problems and policies; pricing, underwriting, adjusting, and agency management. **P: ECO 205 or DC.**
- FIN 366 Finance Internship (3)**  
This course is designed to provide students with practical finance experience by applying financial concepts and technical skills learned in the classroom. It requires 150 hours with an employer, designated class meetings, written assignments, and oral presentations. Credit for this class is dependent upon a) an interview with the sponsoring employer, b) relevance of the internship to the students' finance course work, and c) approval by the coordinator of Finance internships in the Department of Economics and Finance. The course is graded satisfactory/unsatisfactory and only 3 hours of internship credit may be used to satisfy graduation requirements. **P: Second Semester Junior or Higher Standing.**
- FIN 401 Advanced Managerial Finance (3) I, II**  
Combines theory and technique to present an integrated view of the finance function. **P: FIN 301; Sr. stdg.**
- FIN 402 Financing Entrepreneurial Ventures (3) I or II**  
Covers various elements related to financing an entrepreneurial venture. Focuses on attracting seed and growth capital from sources such as individuals, venture capital, investment banking, government, and commercial banks. Other issues include valuing a company, going public, selling out, acquisitions, bankruptcy, different legal forms of organization, partnerships and taxes. **P: FIN 301.**

- FIN 425 Security Analysis and Portfolio Management (3) I or II**  
Analytical evaluation of the investment process emphasizing modern portfolio theory, equilibrium in the capital markets, option pricing theory and evaluation of portfolio performance. **P: FIN 325.**
- FIN 433 Real Estate Finance (3) II**  
Introduction to the basic practices of real estate finance. Emphasis on mortgage and residential financing along with the analysis of income-producing properties. **P: FIN 301 or DC.**
- FIN 435 Portfolio Practicum I (3) I**  
A two-semester sequence. Offers practical experience in investments by managing financial assets. Focus on economic and industry analysis and the determination of their effect on investment decisions; money and capital market forecasts; selection of individual securities; and the development of a portfolio strategy. **P: FIN 325; Sr. stdg.; DC.**
- FIN 436 Portfolio Practicum II (3) II**  
Continuation of FIN 435. **P: FIN 435; DC.**
- FIN 453 Personal Financial Planning (3) I or II**  
Personal financial management of budgets, savings, credit, insurance, taxes, and investments. Includes dealing with inflation, rental or home purchases, planning for retirement, and estate distribution. **P: FIN 301.**
- FIN 479 Seminar in Finance (3) I or II**  
Exploration and analysis of selected problems, topics, and issues in today's financial environment. Course content changes from semester to semester. This course is repeatable as long as topic differs (12 credits). **P: Jr. stdg.**
- FIN 491 The Financial World: A Campus and Travel Course (1-3) I**  
Course designed to provide students with on-site understanding of financial processes to complement campus-based study of the same topics. Includes up to 20 hours of on-campus study prior to the travel portion of the course which will comprise up to 30 hours of study with experts in the field. Various destinations. **P: Sr. stdg.; Completion of at least 6 hrs. of Group VI courses required for a finance major.**
- FIN 493 Directed Independent Readings (1-3) I or II**  
Directed readings course investigating current developments in theory and problems in the field of finance. Limited to students who want to develop a more in-depth knowledge of a subject beyond the regular course coverage and who have a GPA of 3.0 or better. May be repeated for credit to a limit of six hours. **P: Sr. stdg.; DC and Dean's approval.**
- FIN 497 Directed Independent Research (1-3) OD**  
Supervised independent research on topics beyond the regular course coverage. Course is limited to students who have a GPA of 3.0 or better. May be repeated for credit to a limit of six hours. **P: Sr. stdg; DC and Dean's approval.**
- FIN 505 Analysis of Financial Topics (3) I or II**  
Requires research and analysis of financial topics as they appear in the financial press. Provides a forum creating an interactive role between financial topics, the students and the financial press. Independent research skills are strongly emphasized. **P: Sr. stdg.**
- FIN 558 International Financial Management (3) II, S**  
An overview of the financial issues involved in international business. Focus on the environment of international financial management, foreign exchange risk management, multinational working capital management, foreign investment analysis, financing foreign operations and international banking. **P: FIN 301.**

Graduate-level courses (MBA courses, open only to graduate students) offered by the Department of Economics and Finance are listed in the Graduate School issue of the Creighton University *Bulletin* under the heading Business Administration (MBA).

## *FRENCH*

*For the French Program of Study, please refer to page 162.*

- FRN 101 Beginning French I (3) I, II**  
Course designed to focus on the essential elements of basic communication and develop all four language skills (listening, speaking, reading and writing), as well as provide insight into the life and culture of French-speaking countries.
- FRN 102 Beginning French II (3) I, II**  
Continuation of FRN 101. **P: FRN 101 or equivalent.**
- FRN 115 Intensive Beginning French (6) S**  
Course designed to help students make the transition to natural communication and to develop all four language skills (listening, speaking, reading and writing), as well as provide insight into the life and culture of French-speaking countries. Students who have already taken college French must consult with the department before registering for this course.
- FRN 201 Intermediate French I (3) I, II**  
Course designed to help students make the transition to natural communication and to develop further all four language skills (listening, speaking, reading and writing), by using literary/cultural readings and grammatical exercises. **P: FRN 102 or FRN 115 or equivalent.**
- FRN 202 Intermediate French II (3) I, II**  
Development of a more advanced ability in reading, speaking, listening and writing in French. **P: FRN 201 or equivalent.**
- FRN 311 Advanced French I (3)**  
Development of refined accurate expression in speaking and writing French. **P: FRN 202 or equivalent.**
- FRN 312 Advanced French II (3)**  
Development of refined accurate expression in speaking and writing French. **P: FRN 202 or equivalent.**
- FRN 314 Business French Communication (3)**  
Course focuses on the study of the language and the cultural context specific to business communication in French. **P: FRN 202 or equivalent.**
- FRN 325 Introduction to Literary Analysis (3)**  
This course is designed to prepare students for upper-level French and Francophone literature courses with a focus on methods used for the interpretation of literary texts through critical and imaginative readings of poetry, theater, and prose. It thus offers a survey of the major genres, styles, and periods of French and Francophone literature. In conjunction with this exposure to important texts, students will develop the critical skills necessary for textual interpretation. **P: One 300-level FRN course or IC.**
- FRN 327 French Literature Before the French Revolution (3)**  
A study of representative authors, literary works and literary movements before 1789. **P: FRN 311 or FRN 312 or IC.**
- FRN 328 French Literature After the French Revolution (3)**  
A study of representative authors, literary works and literary movements after 1789. **P: FRN 311 or FRN 312 or IC.**
- FRN 335 French Practicum (1)**  
This course is designed to improve the speaking and understanding skills of the students through practical exercises. Course may be repeated for a maximum of three credits. **P: FRN 202 or IC.**
- FRN 411 Advanced Spoken French (3)**  
Review of practical structures, building of a practical vocabulary, exercises designed to develop the ability to understand and express oneself orally. **P: One 300-level FRN course or IC.**
- FRN 412 Advanced Written French (3) II**  
Review of structures, used in written French, vocabulary enhancement, translation techniques, introduction to practical stylistics, exercises designed to develop clear expression in written French. **P: One 300-level FRN course or IC.**

- FRN 493 Directed Independent Readings (1-3)**  
Designed to meet the special needs of majors in French. Limit of three semester hours.  
**P: IC only.**
- FRN 522 French Civilization Before the French Revolution (3)**  
Study of the history, philosophical movements, and general cultural developments in France from the earliest times until 1789. **P: One 300-level FRN course or IC.**
- FRN 523 La Chanson québécoise et la Révolution tranquille (3)**  
A study of the lyrics and music of Quebec songs during the Quiet Revolution of the 1960's and 70's, with particular attention to their impact on social and political change. Students will familiarize themselves with the vocabulary, expressions and accent of a francophone culture, thus becoming progressively aware of the diversity of the French-speaking world. Course taught in French. **P: One 300-level FRN course or IC.**
- FRN 524 French Civilization After the French Revolution (3)**  
Study of the history, philosophical movements, and general cultural developments in France from 1789 to the present time. **P: One 300-level FRN course or IC.**
- FRN 525 Paris, Ville du Monde (Paris, City of the World) (3) S**  
A travel course designed to offer the novice a comprehensive introduction to the city of Paris. More advanced students will have the opportunity to concentrate on a particular topic of interest while building upon prior knowledge. **P: IC only.**
- FRN 540 French Literature: Middle Ages (3)**  
Study of the texts and literary movements of the Medieval period. Introduction to some of the older works in the original language. **P: One 300-level FRN course or IC.**
- FRN 542 French Literature: Renaissance (3)**  
Study of the texts and literary movements of the 16th century. Readings from Rabelais, Montaigne, Ronsard, DuBellay and others. **P: One 300-level FRN course or IC.**
- FRN 543 French Literature: 17th Century (3)**  
Study of the texts and literary movements of 17th century France. Readings from Malherbe, Corneille, Descartes, Pascal, Racine, La Fontaine, La Rochefoucauld and others. **P: One 300-level FRN course or IC.**
- FRN 544 French Literature: 18th Century (3)**  
A study of the texts and literary movements of 18th century France. Readings from Montesquieu, Voltaire, Diderot, Chénier, Rousseau and others. **P: One 300-level FRN course or IC.**
- FRN 548 French Literature: 19th Century (3)**  
From "La Génie du Christianisme" to Naturalism; the most important literary movements; Romanticism, Parnasse and Symbolism (poetry). History, the Critics, Realism and Naturalism. From Hugo to Loti and France. **P: One 300-level FRN course or IC.**
- FRN 549 French Literature: 20th Century (3)**  
Study of texts and literary movements from the turn of this century to the present with texts chosen to give both a depth and breadth of understanding for this period. **P: One 300-level FRN course or IC.**
- FRN 551 Women Writers in French and Francophone Literature (3) (Same as WGS 551)**  
This course offers students the opportunity to read a wide variety of texts written by women in French across the centuries as well as to consider the notion of "écriture féminine" (feminine writing). Students will explore how women have represented women and gender in French and Francophone literature through the specific lens of French feminist theory. **P: One 300-level FRN course or IC.**
- FRN 557 French Poetry (3)**  
Close examination and study of selected works from the Middle Ages to the present. **P: One 300-level FRN course or IC.**
- FRN 564 History of the French Language (3)**  
The development of the French language; general linguistic principles, the Celtic substrata, the Latin base, the various superstrata, from the earliest to modern times. **P: One 300-level FRN course or IC.**

- FRN 572 French Cinema (3)**  
This course is a survey of French cinema. Students will screen, study, and discuss a selection of significant films in chronological order from the works of the Lumi'ere Brothers through contemporary productions. Historical, aesthetic, and technical aspects of cinematography will be discussed. **P: One 300-level FRN course or IC.**

## **GERMAN**

*For the German Program of Study, please refer to page 163.*

- GER 101 Beginning German I (3) I, II**  
Course designed to focus on the essential elements of basic communication and develop all four language skills (listening, speaking, reading and writing), as well as provide insight into the life and culture of German-speaking countries.
- GER 102 Beginning German II (3) I, II**  
Continuation of GER 101. **P: GER 101 or equivalent.**
- GER 115 Intensive Beginning German (6) S**  
Course designed to focus on the essential elements of basic communication and develop all four language skills (listening, speaking, reading and writing), as well as provide insight into the life and culture of German speaking countries. Students who have already taken college German must consult with the department before registering for this course.
- GER 201 Intermediate German I (3) I, II**  
Course designed to help students make the transition to natural communication and to develop further all four language skills (listening, speaking, reading and writing), by using literary/cultural readings and grammatical exercises. **P: GER 102 or GER 115 or equivalent.**
- GER 202 Intermediate German II (3) II**  
Development of a more advanced ability in reading, speaking, listening and writing in German. **P: GER 201 or equivalent.**
- GER 311 Advanced German I (3)**  
Development of refined and accurate expression in speaking and writing German **P: GER 202 or equivalent.**
- GER 312 Advanced German II (3)**  
Development of refined and accurate expression in speaking and writing German **P: GER 202 or equivalent.**
- GER 317 German Literature and Civilization I: From the Middle Ages to 1871 (3) I**  
This advanced language course offers a survey of German literature and civilization from the Middle Ages to 1871 through discussion of literary and non-literary texts, film, music, art and architecture. Students should gain awareness and understanding of the major personalities, events, ideas and institutions that have shaped German literature and culture. Refinement and expansion of advanced language skills: speaking, writing, reading and listening. The course will be conducted in German. **P: GER 202 or equivalent.**
- GER 318 German Literature and Civilization II: From 1871 to the Present (3) II**  
This advanced language course offers a survey of German literature and civilization from Wilhelmine Germany to the present through discussion of literary and non-literary texts, film, music, art and architecture. Students should gain awareness and understanding of the major personalities, events, ideas and institutions that have shaped German literature and culture. Refinement and expansion of advanced language skills: speaking, writing, reading and listening. The course will be conducted in German. **P: GER 202 or equiv.**
- GER 321 German for Business and Economics (3)**  
Designed for students who wish to develop specialized language competence in business German and to understand economic and administrative aspects of business practice. **P: GER 202 or equivalent.**
- GER 328 Studies in Contemporary German Culture: The Last 25 Years (3)**  
Students will explore the different expressions of contemporary German culture. Areas of inquiry include, but are not limited to, German Identity, The Berlin Wall, the Other and minorities, geographical and political differences, German print and electronic media, and

the New Germany within the New Europe. Students will investigate these topics through the study of literature, film, political documents, print and electronic media, online radio features and television programs, WWW sources published by German organizations and institutions, and the German Government. This course will be taught in German. **P: GER 317 and GER 318 or IC.**

- GER 335 German Practicum (1)**  
This course is designed to improve the speaking and understanding skills of the students through practical exercises. It will include culturally authentic sources like newspapers, radio broadcasts and television excerpts from Germany. Course may be repeated for a maximum of three credits. **P: GER 202 or IC.**
- GER 406 German Immigrant Culture in the United States (3)** (Same as AMS 406, HIS 406)  
This course, a survey of German-American culture from the 19th century to the present, takes an interdisciplinary approach to the German immigrant experience in the United States and to questions of ethnic and national identity; taught in English. **P: GER 317 and GER 318 or IC.**
- GER 411 Introduction to German Literature (3)**  
Reading and discussion of major authors and their works as well as German literary movements/periods from the Middle Ages to the present. **P: One 300-level GER course or IC.**
- GER 493 Directed Independent Readings (1-3)**  
Designed to meet the special needs of majors in German. Limit of three semester hours. **P: IC only.**
- GER 495 Directed Independent Study (1-3)**  
For individual students who wish to complete a directed study project that focuses on a topic within the field of German. Limit of three semester hours. **P: IC only.**
- GER 497 Directed Independent Research (3)**  
Intended for individual seniors who wish to conduct research and write a major paper about a topic in the field of German. Limit of six semester hours. **P: IC only.**
- GER 525 The New Berlin (3) S**  
Students will explore the culture, history and politics of Berlin, a city undergoing radical transformation since the fall of the Berlin Wall in 1989 and German unification in 1990. Through walking tours and visits to sites such as the museum at Checkpoint Charlie, the Reichstag, and Alexanderplatz, students learn how the history and culture of the past continue to shape the future of Berlin, the new capital of the Federal Republic of Germany. **P: IC only.**
- GER 527 German Literature of the 19th Century (3)**  
Reading and discussion of representative movements (Classicism, Romanticism, Realism, and Naturalism), their major authors and works. **P: One 300-level GER course or IC.**
- GER 529 Contemporary German Literature (3)**  
Discussion of 20th century German literary movements with special emphasis on literature after 1945. **P: One 300-level GER course or IC.**
- GER 531 German Romanticism: Literature, Art and Music (3)**  
Study of authors and literary masterworks of German Romanticism and examination of the relationship of romantic literature, art and music. **P: One 300-level GER course or IC.**
- GER 541 German Narrative Prose (3)**  
Reading and discussion of various literary forms of major German works written in prose. **P: One 300-level GER course or IC.**
- GER 543 German Drama (3)**  
Development of the German drama from the 18th century to the present: Lessing, Goethe, Schiller, Kleist, Hebbel, Hauptmann, Kaiser, Brecht, Dürrenmatt and others. **P: One 300-**

level GER course or IC.

- GER 545 German “Novelle”: 19th and 20th Centuries (3)**  
Study of the development and tendencies of the German short novels in the 19th and 20th centuries. **P: One 300-level GER course or IC.**
- GER 568 The Multiplicity of German Culture: Cultural Differences and Marginality (3)**  
Students will explore the voices of marginalized groups in Germany. A variety of ethical views will be employed to evaluate those strategies used to marginalize and those used to break down marginalization in social contexts. Students will discover how these groups find expression in German society and what strategies these groups employ for their survival. Students will also study German language, literatures and film while gaining a deeper understanding of the existing relationships between Germany’s main culture and the cultures of these marginalized groups. **P: One 300-level GER course or IC.**
- GER 572 Reading German Films (3)**  
This course offers an introduction to the film analysis and 80 years of filmmaking in Germany. Films from the Weimar Republic to the 21st century are screened and discussed within the context of cultural and political history. The selected films, which range from silent movies to recent works by some of the world’s most influential directors, present a broad spectrum of aesthetic and political perspectives that include Expressionism, Nazi propaganda and post-unification social criticism. **P: One 300-level GER course or IC.**

## GREEK

*For the Greek Program of Study, please refer to page 121.*

- GRK 101 Beginning Greek I (3) I**  
Basic vocabulary, syntax, and morphology for reading classical and New Testament Greek authors.
- GRK 102 Beginning Greek II (3) II**  
Completion of study of basic vocabulary, syntax, and morphology. **P: GRK 101 or equiv.**
- GRK 115 Intensive Beginning Greek (6)**  
Intensive introduction to the grammar and vocabulary of ancient Greek. Course will cover all of the basic grammatical elements of Ancient Greek and introduce much of the basic vocabulary; at the end of the course some Greek authors will be introduced to present the grammar and vocabulary in context.
- GRK 201 Intermediate Greek (3) I**  
Selections from major Greek authors of prose and poetry. Intensive review of grammar and syntax. This course applies and extends the language study done in GRK 101 and 102. **P: GRK 102 or see Greek Program of Study.**
- GRK 300 Introduction to the Ancient Mediterranean World (3) OD (Same as CNE 300, LAT 300)**  
General introduction to the ancient Near Eastern, Egyptian, Greek and Roman world, focusing on the history, literature, material culture, religion and/or philosophy of each culture. Readings from ancient and modern sources.
- GRK 301 Readings in Greek (3)**  
Selected readings of major Greek authors, such as Homer, Herodotus, or Lysias. Review of Greek grammar and syntax. Study of the prose and poetic styles of the authors read.
- GRK 303 Greek Prose Composition (3)**  
This course provides a comprehensive review of ancient Greek morphology and syntax by means of composition. Students will closely analyze passages from several classical prose authors and attempt to imitate their various styles in their own writing of Greek. **P: IC.**
- GRK 400 Archaic Greek Authors (3)**  
Students will read authors of the Archaic period (such as Homer, Hesiod, or individual lyric poets). **P: GRK 201 or equiv.**
- GRK 401 Archaic Greek Themes and Genres (3)**  
Students will pursue thematically-tied or genre-related readings of various authors of the

Archaic period (such as epic or lyric). This course is repeatable to a max of 6 credits. **P: GRK 201 or equiv.**

- GRK 402 Classical Greek Authors (3)**  
Students will read authors of the Classical period (such as Aeschylus, Thucydides, or Demosthenes). Repeatable for a max of 6 hours. **P: GRK 201 or equiv.**
- GRK 403 Classical Greek Themes and Genres (3)**  
Students will pursue thematically-tied or genre-related readings of various authors of the Classical period (such as a focus on historiography, tragedy, problems of democracy, etc). This course is repeatable to a max of 6 hours. **P: GRK 201 or equiv.**
- GRK 404 Post-Classical Greek Authors (3)**  
Students will read authors of the Post-Classical period (such as Polybius, Plutarch, etc.). This course can be repeated to max of 6 hours. **P: GRK 201 or equiv.**
- GRK 405 Post-Classical Greek Themes and Genres (3)**  
Students will pursue thematically-tied or genre-related readings of various authors of the Post-Classical period (such as a focus on inscriptions, historical topics, etc.). This course may be repeated to a max of 6 hours. **P: GRK 201 or equiv.**
- GRK 406 Late/koine Greek Authors (3)**  
Students will read late-Greek or Koine authors (such as Origen or Nonnos). May be repeated to a max of 6 credits. **P: GRK 201 or equiv.**
- GRK 407 Late/koine Greek Themes and Genres (3)**  
Students will pursue thematically-tied or genre-related readings of various late-Greek or Koine authors of the same period (such as from the Septuagint or New Testament). This course may be repeated to a max of 6 credits. **P: GRK 201 or equiv.**
- GRK 408 Byzantine Greek Authors (3)**  
Students will read authors of the Byzantine period (such as Procopius, Photius, or Anna Comnena). May be repeated to a max of 6 credits. **P: GRK 201 or equiv.**
- GRK 409 Byzantine Greek Themes and Genres (3)**  
Students will pursue thematically-tied or genre-related readings of various authors of the Byzantine period (such as epic or historiography). May be repeated to a max of 6 credits. **P: GRK 201 or equiv.**
- GRK 410 Diachronic Readings in Greek (3)**  
Students will read works by Greek authors from different periods. They will be linked in any number of ways, e.g., by genre, theme, or subject matter. May be repeated to a max of 6 credits. **P: GRK 201 or equiv.**
- GRK 411 Readings in Greek and Latin (3)** (Same as LAT 411)  
Students will pursue thematically-linked reading of the works of Greek and Latin authors from different periods (such as comparative readings in drama, or philosophy, or historiography). May be repeated to a max of 6 credits. **P: GRK 201 or equiv. and LAT 201 or equiv.**
- GRK 493 Directed Independent Readings (2-4) OD**  
Designed to meet the special needs of qualified students. Credit by arrangement. May be repeated to a limit of six hours.
- GRK 498 Senior Capstone Seminar (3) II** (Same as CNE 498, LAT 498)  
Directed research on a general topic; preparation and public presentation of a senior thesis. GRK 498 open only to Greek majors.

## ***HEALTH ADMINISTRATION AND POLICY***

***For the Health Administration and Policy Program of Study, please refer to page 152.***

- HAP 200 Introduction to Health Care Administration (3) I, II**  
An introduction to managerial and administrative issues in health care. Administrative components of the health care system and an overview of major topics such as human resource administration, information management, budgeting and financing, planning and



health organization strategy, government regulation, and insurance issues.

- HAP 212 Quantitative Methods in the Social Sciences (3) I** (Same as ANT 212, SOC 212)  
Introduction to quantitative research within the social sciences. Attention is directed to the basic logic and research techniques involved in studying the social world scientifically. Specific topics considered include research design, measurement, alternative data collection procedures, and ethical concerns involved in studying social life.
- HAP 215 Sociology of Health Care (3) I** (Same as SOC 215)  
Study of the relationship between society and health care systems. The sociology of health care organization, including patient-practitioner relationships, concepts of health and disease, healthcare personnel, and systems of delivery. **P: So. stdg.**
- HAP 310 Health Finance and Budgeting (3) II**  
Financial and budgetary concepts as applied in the management of health care organizations. Topics include sources of funding, cost and rate setting, third party payment issues, general questions of internal control, financial planning, and use of various financial instruments. **P: HAP 200**
- HAP 317 Global Health Issues (3) II** (Same as AFS 317, ANT 317, SOC 317)  
This course will examine the social production of health and disease from a global perspective. Related to these issues is the topic of health and well-being in developing countries. **P: So. stdg.**
- HAP 331 Managing the Public and Non-profit Sectors (3) I** (Same as PLS 331)  
Examines administrative processes and politics in government and non-profit settings. The course emphasizes application of material to case study examples of public and non-profit organizational challenges. Course covers local, state, and national bureaucratic politics. **P: So. stdg.**
- HAP 334 Public Policy and Health Care (3) II** (Same as PLS 334)  
Review of government policies and programs as they affect health care in the United States and other countries. Various systems of health insurance, the private medical market, governmental provision, development and evolution of managed care systems, current U.S. federal programs. **P: So. stdg.**
- HAP 390 Health Communication (3) AY** (Same as COM 390)  
This course investigates research theories and permits students to demonstrate practical applications of communication within health care situations. The course emphasizes understanding communication variables such as verbal, non-verbal, conflict, listening, and self-disclosures in health care contexts. The course also examines issues of ethics and relationships between health care providers, patients, and families.
- HAP 410 Seminar in Health Administration (3) I, II, AY**  
Selected advanced topics in health administration. May be repeated for six credits as long as the topic differs.
- HAP 420 Seminar in Health Policy (3) II, AY, OD**  
Selected advanced topics in health policy. May be repeated for six credits as long as topic differs.
- HAP 433 Public Policy Analysis (3) II, AY** (Same as PLS 433)  
Examination of approaches to public problem solving and public policy analysis. Key theories of power and policy, strategies for analyzing public problems and developing policy proposals, and policy in specific areas. **P: Jr. stdg.**
- HAP 457 Biomedical Ethics: Philosophical and Theological Approaches (3) I, II, S, OD** (Same as PHL 457, SRP 457, THL 457)  
An exploration of relations between philosophical and theological conceptions of ethics and moral methodologies, together with an application of the latter to select issues in biomedicine and health care policy. **P: THL 250 or PHL 250, Sr. stdg.**
- HAP 485 Internship in Health Administration and Policy (1-6) I, II, S**  
Students work as entry-level administrative professionals in organizations involved in health care delivery, administration, or policy-making. May be repeated to a maximum of six hours of credit. **P: Jr. stdg., 2.5 GPA; consent of internship director.**

- HAP 493 Directed Independent Readings (1-3) I, II, S**  
A student initiated program of readings undertaken with a faculty member in the Health Administration and Policy Program. May be repeated to a maximum of six hours. **P: DC.**
- HAP 497 Directed Independent Research (3-6) I, II, S**  
A student initiated research project undertaken with the supervision of a faculty member in the Health Administration and Policy Program. May be repeated to a maximum of six hours. **P: DC.**
- HAP 515 Law and Health Systems (3) I**  
Legal aspects of health care in the administration of health organizations. Among topics considered are legal liability and standards of care, malpractice, regulation of health care professions, informed consent, policies regarding medical records and legal responsibilities for personnel. **P: HAP 200.**
- HAP 520 Statistical Methods for Public Administration and Policy Analysis (3) OD (Same as PLS 520)**  
Application of research methods and statistical tools to public management tasks and questions. **P: PLS 310 or SOC 212.**

## *HEALTH POLICY AND ETHICS*

- HPE 311 Health Care Ethics (3) I**  
Inquiry and exploration into the problems of modern health care using ethical theories and reflection to articulate a range of possible solutions. **P: Jr. stdg.**

## *HEBREW*

- HEB 101 Introduction to Classical Hebrew I (3) I**  
Introduction to Classical Hebrew: alphabet, paradigms, introductory grammar.
- HEB 102 Introduction to Classical Hebrew II (3) II**  
Continuation of Classical Hebrew I with emphasis on grammar, structure, and compositional techniques, leading to a study of Hebrew narrative. **P: HEB 101.**
- HEB 201 Introduction to Classical Hebrew Poetry (3) OD**  
Literary analysis of select Biblical poetry (prophets and psalms) with emphasis on structure, cultural context, and linguistic styles. **P: HEB 102.**

## *HISTORY*

*For the History Program of Study, please refer to page 153.*

- HIS 101 The Modern Western World (3) I, II, S**  
A survey of the evolution of the Western societies of Europe and North America from the 15th century to the present.
- HIS 103 The Asian World (3) I, II**  
A survey of developments in Asian societies from the 15th century to the present, emphasizing in particular East Asia, South Asia, and Southeast Asia. **P: HIS 101.**
- HIS 104 The Latin American World (3) I, II**  
A survey of the development of Latin America, its culture and society, its politics and economics, from the first permanent contact with Europe in the 15th century through the entrenchment of Spanish colonial rule, the struggle for independence and viable nation-states, to the present problems and potential of a Third World existence. **P: HIS 101.**
- HIS 106 The African World (3) I, II (Same as AFS 106, BKS 106)**  
A survey of developments in Africa from the 15th century to the present emphasizing the decline and reemergence of African independence, the creation of the African diaspora, and developments in the post-colonial period. **P: HIS 101.**
- HIS 107 The Middle Eastern World (3) I, II**  
A survey of developments in the Middle East from the rise of Islam to the present through an

examination of the region's peoples and religious, social, and political institutions. Special attention is devoted to the encounter of the Middle East with the West. **P: HIS 101.**

- HIS 108 The Native American World (3) II** (Same as ANT 108, NAS 108)  
This course is a survey of the development of Native American societies and cultures from their appearance on the continent to the present emphasizing the evolution of cultural, political, and social systems and the imprint of contact with Euro-American cultures. **P: HIS 101.**
- HIS 300 Historiography (3) I**  
Study of the history of writing history — the concepts, contributions, and controversies of outstanding historians of the past and present who have developed this central branch of knowledge. Concentration on a specific field within history, as selected by the instructor. Required of all history majors. **P: So. stdg.**
- HIS 302 American Studies Seminar: The American Character (3) AY** (Same as AMS/ANT 302)  
Comprehensive study of the values, attitudes, and characteristic behaviors of the American people. How and why are Americans different from others? What is the national character? What historical forces have formed this character? **P: So. stdg.**
- HIS 303 American Studies Seminar: The American People (3) II, AY** (Same as AMS 303)  
Comprehensive study of the various ethnic and social groups that compose the American people. Study of Native American groups and the various immigrants, and how they have interacted culturally and biologically to produce a new people. **P: So. stdg.**
- HIS 311 United States History to 1877 (3) I**  
Surveys the growth and development of institutions from their European origins through the end of Reconstruction. Emphasis is placed on the ideas and processes that created those institutions, as well as on the degree to which they were uniquely American. Serves as the basis for advanced work in United States history. **P: So. stdg.**
- HIS 312 United States History Since 1877 (3) II**  
Survey of the growth and development of United States institutions from the end of Reconstruction to the present day. Emphasis is placed on ideas, processes, and causation, and the emergence of the United States as a world power. Serves as the basis for advanced work in United States history. **P: So. stdg.**
- HIS 316 In Search of God and Self: Renaissance and Reformation Thought (3) AY**  
A study of ideas, views, and values of the Renaissance and Reformation eras. Topics for examination include the doctrine of Renaissance humanism, the origins of *Realpolitik*, the role of scientific thought in culture and society, religious questions in the face of schism and their resolutions, and the “modernity” of the fourteenth century. **P: So. stdg.**
- HIS 317 Inside Hitler's Germany — A Study of Nazi Tyranny (3) AY**  
Study of the rise and consolidation of tyranny in a modern Western society. Readings, discussions, and lectures on the conditions that led to Hitler's rise to power; the personalities and policies that characterized the Nazi regime; the public and private choices required of people living in Nazi Germany; and the impact of Nazi terror and war on individuals and groups of people. **P: So. stdg.**
- HIS 319 Eastern Europe 1918-1989: Revolutions in Historical Perspective (3) I, AY**  
A study of historical trends and events that have shaped contemporary Eastern Europe. The course will focus on developments in the region since 1918 with emphasis on Poland, Czechoslovakia, Hungary, and Yugoslavia. Impact of rivalries among European powers before 1938 and the Soviet Union and the Western powers since 1945, as well as nationalism and ethnic conflicts. Major issues explored include the creation of ethnic states, the failure of democracy, Communist rule and Soviet domination, “the lure of the West,” and recent “democratic” revolutions. **P: So. stdg.**
- HIS 320 World War II in Europe: Triumph over Tyranny (3) II**  
An examination of the personalities, policies and events involved in the defeat of Hitler's Reich. The course will focus on the major phases of the Second World War in Europe, from the early victories of Hitler's forces to the Anglo-American landings in Normandy and the final surrender of the German Army. Examination of such issues as the political goals and military strategies of the combatant governments; conflicts and rivalries among leading personalities; the conduct of the fighting forces; the role of air power, of military

intelligence, of material and human resources; and the contribution of the “home front” to Allied victory and Nazi defeat. **P: So. stdg.**

- HIS 321 Tudor and Stuart England** (3) I, AY  
Political, economic, religious, and intellectual developments in England, 1485-1714. Topics include Henry VIII and the English Reformation; the Elizabethan Age; Exploration and Imperial Expansion; the rise of Puritanism; the English Civil War; the Restoration Era; and the “Glorious Revolution.” **P: So. stdg.**
- HIS 330 Museums and Social Science** (3) II (Same as ANT 330, NAS 330)  
This course examines the interrelationship of how social scientists have theoretically understood society and culture and how they have structured and utilized museums. Students will study the history of both anthropological theory and museums as well as ethical and aesthetic issues and demonstrate their knowledge by creating an ethically responsible public virtual museum on the World Wide Web for a final project. **P: So. stdg.**
- HIS 335 The Scientific Revolution** (3)  
European science, 1500-1700, examining how new scientific theories challenged traditional explanations of natural phenomena. Topics include the development of the modern scientific method, the Copernican revolution in astronomy, the Galileo controversy, anatomy, occult sciences, and Newtonian physics. **P: So. stdg.**
- HIS 341 Introduction to Jewish History** (3) AY  
Presentation and examination of Jewish history from biblical to modern times with emphasis on social, political, cultural, and religious contexts and interactions.
- HIS 347 The Arab-Israeli Conflict: Struggle for the Holy Land** (3) II  
An examination of the Arab-Israeli conflict from the emergence of political Zionism in the late 19th century to the peace efforts of the 1990s and beyond. Topics will include the origins and consequences of the British mandate for Palestine; the development of Israeli social and political institutions; the rise of Palestinian national consciousness; the impact of outside powers on the conflict; and prospects for a lasting resolution. **P: So. stdg.**
- HIS 348 Muhammad and the Rise of Islam** (3) OD (Same as CNE 348)  
The course examines the emergence and flowering of Islamic civilization from the time of the Prophet, Muhammad, until the sack of Baghdad by the Mongols in 1258. Topics include Muhammad’s prophetic mission, the Arab Kingdom of Damascus, the rise of the Abbasids and the classical civilization of the High Caliphate. **P: So. stdg.**
- HIS 349 Egyptian Art and Archeology** (3) OD (Same as ART 349, CNE 349, THL 349)  
This course will explore the history, society, culture, and religion of ancient Egypt from the predynastic era through the Ptolemaic period, as revealed through its artistic and material remains. Attention will be given to how sculpture, painting, architecture, and other material remains provide a window on Egyptian life and thought. **P: So. stdg.**
- HIS 350 Archaeology of Syria-Palestine** (3) OD (Same as ART 350, CNE 350, THL 350)  
A chronological survey of the archaeology of Syria-Palestine in which material culture provides a window on the history of society, economy, and religion from the Neolithic to Hellenistic times. Special topics include the emergence of farming and pastoral societies, the formation and dissolution of Bronze Age city-states, and the rise and fall Iron Age kingdoms such as Israel, Moab, and Edom. **P: So. stdg.**
- HIS 351 Comparative American Character** (3) AY (Same as AMS 351)  
Study of political and social values projected by contemporary societies of the United States, Canada, and Latin America; how and why they differ from each other; is there a common “American” value system? **P: So. stdg.**
- HIS 352 Hollywood and American History** (3) OD  
Oliver Stone’s films on the Vietnam War and on American presidents are only the latest in a long line of motion pictures in which “Hollywood” combined mass entertainment with controversial historical interpretation. This seminar will compare historical events to their fictionalized film versions. **P: So. stdg.**
- HIS 354 Constitutional History of the United States to 1877** (3) II, AY  
Analyzes the impact of historical events on the theory, writing, and evolution of the Constitution. Colonial and Revolutionary background; the Constitutional Convention; development

and interpretation of the Constitution from the Federalist era through the Civil War and Reconstruction. **P: So. stdg.**

- HIS 355 Constitutional History of the United States Since 1877 (3) II**  
Continuation of HIS 354. HIS 354 is not a prerequisite to HIS 355. Analysis of the impact of historical events on the Constitution. Constitutional interpretation in late 19th century; the Progressive era; World War I, the 1920's; the New Deal; World War II and the Cold War; civil liberties and civil rights; the Warren, Burger, and Rehnquist Courts; the Presidency since World War II; contemporary Constitutional issues. **P: So. stdg.**
- HIS 356 Constitutional Issues (3)** (Same as PLS 356)  
This course links both the Constitutional History of the United States with the Constitutional Law cases that laid the foundation for the living Constitution that exists today. The historical context and the judicial actions of the courts, from the Founding Fathers to the present, will be examined and debated. **P: So. stdg.**
- HIS 357 Religion in American Society to 1865 (3) I, AY**  
The influence of religion on American cultural, intellectual, social, and institutional development. The role of religion in the discovery, exploration, and settlement of the continent as well as the birth and growth of the nation. Includes colonial attitudes toward and practices of religious freedom; denominationalism; the American sense of errand and mission; 18th century revivalism and its role in the American Revolution; 19th century revivalism and the settlement of the frontier; pietism; millennialism; and the impact of the Civil War on major American churches. **P: So. stdg.**
- HIS 358 Religion in American Society from 1865 to the Present (3) II**  
Continuation of HIS 357. HIS 357 is not a prerequisite to HIS 358. The influence of religion on American cultural, intellectual, special, and political development. The responses to urban growth and industrialization; the development of the Social Gospel; nativism and its impact on American religion; crusading Protestants—or the role of missionaries; the rise of Neo-Orthodoxy; revivalism in modern America; religion in American life in economic depression, in war, in prosperity, in social turmoil; unbelief in America; and the new religions in America. **P: So. stdg.**
- HIS 359 The City in United States History (3) OD** (Same as AMS 359)  
This course examines the development of urban areas in the United States during the 19th and 20th centuries. Of particular concern are the elements of urban architecture, economics, politics, demographics, and violence. To go beyond the generalizations of the assigned readings, the city of Omaha will be used as a laboratory for investigating these themes in a specific setting. **P: So. stdg.**
- HIS 367 The Afro-American Experience (3) AY** (Same as BKS 367)  
Slavery, emancipation, “separate but equal”, and the drive for full equality. **P: So. stdg.**
- HIS 371 Mexico and the Mexican Revolution (3) AY**  
The first true social revolution in Latin America considered in its historical background, its violent eruption, its sweeping changes and its contemporary direction. **P: So. stdg.**
- HIS 372 Equality, Minorities, and Public Policy (3) II, AY** (Same as AMS 372, BKS 372, PLS 372)  
Incorporates continuing dialogues between a historian and a political scientist. Exploration of political processes whereby minorities have influenced the formulation and implementation of policy and governmental responses to demands for equal treatment. **P: So. stdg.**
- HIS 375 The United States and Latin America (3) I, AY**  
The “special relationship” between the United States and the nations of Latin America, from the foundations of the Monroe Doctrine and Manifest Destiny to U.S. hemispheric hegemony, the Response to Revolution, and benign neglect. Special emphasis on current inter-American issues and developments. **P: So. stdg.**
- HIS 384 Black History Through Literature (3) OD** (Same as BKS 384)  
History of Americans of African descent as found in journals, novels, and “studies.” **P: So. stdg.**
- HIS 388 Origins of Modern Africa (3) AY** (Same as AFS 388, BKS 388)  
Examination of the European impact on Africans and their institutions. **P: So. stdg.**

- HIS 390 Biography as History (3) I, OD**  
Studies of the lives of individuals who made significant impacts on their age and the world. Course will be subtitled in the Schedule of Courses. **P: So. stdg.**
- HIS 393 War and Society in the Modern World (3) II**  
Survey of twentieth century American military history. Examination of the relationships among the military establishments, the wars and the societies that fostered them in order to understand the nature of war, how it has changed through time, and its impact on historical development. **P: So. stdg.**
- HIS 395 Selected Topics (3) OD**  
Topical approach to select problems in history as chosen by the department. Course will be subtitled in the Schedule of Courses. **P: So. stdg.**
- HIS 400 Research Methods in History (3) I**  
A seminar aimed at introducing the student to the skills involved in researching historical topics. Emphasis on the process of historical writing, including research methods and tools, the use of historical evidence, and the technical aspects of paper writing. Required of all history majors. **P: So. stdg.**
- HIS 401 Greek History to the Peloponnesian War (3) I, AY (Same as CNE 401)**  
The political and social history of Greece, with excursions into its material culture, from prehistoric times through the end of the Peloponnesian War.
- HIS 402 Honors History Seminar (3) II, OD**  
Topical approach to select problems in history. Course will be subtitled in the Schedule of Courses.
- HIS 403 The Roman Republic (3) I, AY (Same as CNE 403)**  
The political and social history of Rome with excursions into material culture covering developments from the Bronze Age to the end of the Roman Republic. Some emphasis will be placed on the political structures of the Republic, both in seeking the antecedents of the American constitution and in analyzing the causes of the Republic's fall. **P: So stdg.**
- HIS 404 The Roman Empire (3) (Same as CNE 404)**  
The political and social history of the Roman Empire, with excursions into its material culture, from the Age of Augustus through the reign of Constantine the Great. Emphasis will be placed on the provinces and the diverse ethnic groups within the Empire. **P: So stdg.**
- HIS 406 German Immigrant Culture in the United States (3) (Same as AMS 406, GER 406)**  
This course, a survey of German-American culture from the 19th century to the present, takes an interdisciplinary approach to the German immigrant experience in the United States and to questions of ethnic and national identity. **P: GER 317 and GER 318.**
- HIS 407 The Early Middle Ages (3) I, II**  
Western Europe, A.D. 300-1050. Topics include the barbarian migrations, the christianization of Europe, Charlemagne and the "First Europe," fragmentation of the Carolingian empire, western relations with Byzantium and Islam, the origins of feudalism and manorialism, and the rise of the Normans. **P: So. stdg.**
- HIS 408 The High and Late Middle Ages (3) II**  
Includes the origins of the nation-state, the Church, conflicts between the Church and secular states, medieval heresies, chivalric society and culture, universities and scholasticism, the Black Death, the commercial revolution, and the Hundred Years War. **P: So. stdg.**
- HIS 409 The Crusades: A Mirror of Medieval Society (3) I**  
A study of the Crusading movement and its impact upon medieval society. Topics will include the political and religious background of the First Crusade; establishment of the Crusader States; popular participation in the Crusades; and economic results of the conflicts between Christians and Moslems. **P: So. stdg.**
- HIS 411 Europe 1350-1500: The Dawn of a New Age (3) I**  
The late 14th and early 15th centuries was a time of decay in Western Europe. Depression, war, rebellion, political anarchy, religious heresy, and epidemic disease — all seemed to spell doom for Western society. Out of it came an unparalleled rebirth of European cultural,

economic, and political systems known to historians as the “Renaissance.” This course follows Europe’s 14th century disasters and its 15th century recovery. **P: So. stdg.**

- HIS 412 European Society, Religion, and Statecraft, 1500-1648** (3) II  
Europe during the years of the Protestant Reformation, the Catholic Counter-Reformation, and the Thirty Years War. A period of the emergence and growth of new religions and the reform of Catholicism, violent social upheaval, enormous economic expansion, international dynastic rivalry, and internal competition for sovereignty in Europe and the British Isles. **P: So. stdg.**
- HIS 413 Absolutism, Reason, and Revolt, 1648-1789** (3) AY  
Examination of the growing bureaucracy, intense political rivalry, rapid socio-economic change, and revolutionary cultural developments in Britain and the European states in the century and a half between the end of the Thirty Years War and the beginning of the French Revolution. **P: So. stdg.**
- HIS 415 19th Century Europe** (3) II  
The theme of this course is the transformation of Europe from the old regimes—torn by revolution—to modern, urban-industrial societies of the contemporary age. The focus will be on general trends and significant particulars in politics, in economic and social developments, and in cultural and intellectual life. The course will examine topics like: the postrevolutionary triumph of reaction and the rise of modern conservatism: the economic and social consequences of the first and second industrial revolutions; the spread of the culture of materialism; the triumph of political liberalism; and Europe’s *fin de siècle*. **P: So. stdg.**
- HIS 416 For the Greater Glory: The Jesuits, their History and Spirituality** (3) OD (Same as SRP 416, THL 416)  
An examination of the Society of Jesus from its founding by Ignatius of Loyola during the pivotal 16th century, through suppression and recovery to the challenges of the modern, Post-Vatican II era, this course seeks to understand the Jesuits on two levels: through their controversial history, set within the context of their times and as represented by the lives of selected individuals; and through the development of their particular spirituality, Ignatian methods of prayer and discernment of spirits, as originated in the Spiritual Exercises and enhanced over time. Students will have an opportunity both to analyze Jesuit history and to experience Ignatian spirituality in their own interior lives. **P: Sr. stdg. and PHL 250 or THL 250.**
- HIS 417 Europe Since 1919** (3) I, AY  
Europe in the throes of change. A civilization caught up in a rapid succession of wars, revolutions, economic and social crises — and ultimate renewal under radically altered domestic and world conditions. Along with high politics and diplomacy, world wars, Communist and Fascist revolutions, the course focuses on everyday preoccupations of ordinary people and the increasing significance of their aspirations and values in Europe since 1945. **P: So. stdg.**
- HIS 420 Selected Topics in Ancient History** (3) OD (Same as CNE 420)  
Topical approach to select problems or special periods in ancient history. Course will be subtitled in the Schedule of Courses. Course is repeatable as long as subtitle is different. **P: So. stdg.**
- HIS 421 The Vikings** (3)  
Scandinavian history from settlement through c. 1300, focusing upon the age of Viking expansion from the late 8th through 11th centuries. **P: So. stdg.**
- HIS 431 Mathematical History, Philosophy and Ethics** (3) AY (Same as MTH 431, SRP 431)  
An examination of mathematics and mathematical ideas and their relation to philosophical and ethical views from the ancient Babylonians and Pythagoreans to the present. Special attention will be given to non-Western mathematics, ethnomathematics, twentieth-century game theory, encryption, and ethical issues facing the mathematician and society in the past and today. The course assumes no mathematical background beyond the Core E requirements. **P: Sr. stdg.**
- HIS 449 The Formative Years of the United States** (3) AY  
Considers the Age of Exploration and the European discovery and America; the European colonization of North America; and the cultural, economic, political, and social development of the thirteen colonies which became the United States of America up to 1763. Emphasis

on the transformation of Europeans into provincial Americans. **P: So stdg.**

- HIS 450 The Birth of a Nation: The Era of the American Revolution (3) AY**  
Considers the movement for independence and the struggle to establish and secure the new nation between 1763-1789. Emphasis is placed on factors which drove the colonists toward independence, the representation of their grievances and political philosophy in the Declaration of Independence, and the events surrounding the writing and adoption of the Constitution. **P: So. stdg.**
- HIS 451 The Rise of Nationalism and Sectionalism in the United States (3) AY**  
Explores implementation of the Constitution, creation of the Bill of Rights, formation of the first political parties, and roles of key figures such as George Washington, John Adams, Thomas Jefferson, and Andrew Jackson in the period between 1789 and 1850. Also considered are the democratization process, reform movements, nationalism, slavery, and that sectionalism which led to the Civil War. **P: So. stdg.**
- HIS 452 Civil War and Reconstruction (3) AY**  
Development of the controversies resulting in the Civil War. The War. Political and economic reconstruction after the war. **P: So. stdg.**
- HIS 453 The Gilded Age in the United States (3) AY**  
An examination into the transformation of the United States, 1877-1901. Course uses the “politics of dead center” as an organizing principle. Emphasis is placed on urbanization, industrialization, and immigration. **P: So. stdg.**
- HIS 454 The Progressive Era in the United States, 1901-1920 (3) AY**  
The United States at the beginning of its imperial age. Topics include the Age of Big Business; protest and reform; the United States and the First World War; the Red Scare. **P: So. stdg.**
- HIS 455 The Republican Ascendancy: The United States 1920-1933 (3) I, AY**  
The cultural, economic, political, and social dimensions of the “Roaring Twenties”; the rise of isolationism; the stock market crash of 1929; the coming of the Great Depression. **P: So. stdg.**
- HIS 456 The Era of Franklin D. Roosevelt (3) OD**  
The economic, social, and political impacts of the Great Depression; reforms of the New Deal; from isolationism to participation in World War II. **P: So. stdg.**
- HIS 457 Happy Days? The United States 1945-1960 (3) OD**  
A course on the social, economic, cultural, and political developments of the postwar era that will place in historical perspective the interpretation provided by the popular television program. Topics include the emergence of the Cold War, Truman and the Fair Deal, McCarthyism, the Eisenhower era, and the civil rights crusade. **P: So. stdg.**
- HIS 458 The Sixties (3) OD**  
A course on the social, economic, cultural, and political developments in the United States between 1960-1974. Topics include JFK and the New Frontier, LBJ and the Great Society, the Nixon presidency and Watergate, the war in Vietnam and the Movement, and the counterculture. **P: So. stdg.**
- HIS 459 Contemporary United States History (3) OD**  
A course on recent social, economic, cultural, and political events in the United States, 1974-present. Topics include the malaise of the 70s, the Reagan Revolutions, the end of the Cold War, and issues of the 90s in historical perspective. **P: So. stdg.**
- HIS 460 The History of Women in the United States (3) OD (Same as AMS 460, WGS 460)**  
The economic, social, and political status of women in the United States from colonial times to the present. Concentration on four major topics: the family, the work place, the community, and the feminists movements. An integral part is the examination of the traditional roles of women in society as well as changes in those roles. **P: So. stdg.**
- HIS 464 Women, Marriage, and Family in East Asian Society (3) II (Same as WGS 464)**  
Focus on the role and status of women in China and Japan since the 16th century, emphasizing how, why and by whom womanhood has been defined and redefined over time. **P: So. stdg.**



- HIS 465 Japanese Popular Culture (3)**  
 In this course, we will examine various aspects of Japanese popular culture from the Tokugawa period, through the imperial era (1868-1945), to the postwar/contemporary time (1945-present), though more emphasis is put on postwar Japan. Critical analysis of different forms of cultural production, from the theoretical and thematic perspectives of class, gender, globalization, modernity, national/racial/ethnic identity, sexuality, invented traditions, and war memory, will provide insight into Japanese history, culture, and society. **P: So. stdg.**
- HIS 466 Popular Culture in Traditional China and Japan (3) I**  
 Survey of religions, philosophies, arts, theatres and sciences of both China and Japan. Course designed to provide students with an understanding of the traditional customs, assessing their unique thoughts and systems of values. Specific emphasis placed on how these customs have been practiced in both societies. Films, slides, discussions and collateral readings will provide the particular interest of the class. **P: So. stdg.**
- HIS 467 Modern China (3) I**  
 Course investigates how China has attempted to build a modern state in the face of its decline as the leading nation in East Asia during the nineteenth century. Central themes are the impact of Western civilization on China and the Chinese response to it as well as the search for a new identity in both the PRC and the ROC. **P. So. stdg.**
- HIS 468 Modern Japan (3) AY**  
 Few topics captivate historians more than Japan's remarkably rapid and "successful" transformation from an isolated agrarian society to a modern world power. In the past 130 years, that small archipelago on Asia's eastern fringe experienced political, economic, diplomatic, socio-cultural as well as intellectual change on a scale unprecedented in human history. This course pays particular attention to the ways in which ordinary people's lives were affected (or unaffected) by the forces that underlay national change. **P: So. stdg.**
- HIS 469 Ethnohistorical Approaches to Native American Cultures (3) II (Same as AMS 469, ANT 469, NAS 469)**  
 This course's approach is ethnohistorical, combining the disciplines of history and anthropology to obtain multiple perspectives on the historical interactions between native and non-Native peoples. We will research historical and cultural topics concerning both Native and Euro-American groups from the time of European incursion into North America to the present. The result of this course will be a final research paper on some theme in the history and culture of Native peoples. **P: So. stdg.**
- HIS 474 Heroes in Latin American History (3) OD**  
 From Cortes to Castro, the development of government, society, and economy in Latin America as seen through the lives of its heroes and villains, its reformers and revolutionaries — the men and women who exemplified the cult of the personality as a primary force in shaping Latin American history. **P: So. stdg.**
- HIS 478 Jerusalem in History (3)**  
 Analyzes the Jewish, Christian, and Islamic histories of Jerusalem from biblical times until the present. Examines the ways each faith has made its claim upon the holy city. Topics include the Davidic city and the Temple of Solomon, the Byzantine interlude, the coming of Islam and the Dome of the Rock, the Crusades, and the place of Jerusalem in modern Jewish and Palestinian nationalisms. **P: So. stdg.**
- HIS 479 The Making of Modern Egypt (3) II**  
 This course focuses upon the political, social, and cultural history of modern Egypt from the early 19th century to the consolidation of the Nasser revolution in the 1960s. Topics include Napoleonic expedition; Mohammad Ali dynasty and the British occupation; Islamic reform; the "liberal era"; the Muslim Brotherhood; and free officers. **P: So. stdg.**
- HIS 482 Race in America: Idea and Reality (3) OD (Same as AMS/BKS/PHL/PLS/SRP 482)**  
 An examination of the idea and reality of race during key phases of U.S. history, with an emphasis on the contemporary situation. To understand the multiple meanings and experiences of race, the course draws on sources from science, literature, law, and philosophy. **P: Sr. stdg.**
- HIS 484 Nationalist Movements in Colonial Africa (3) II (Same as AFS 484, BKS 484)**  
 Case studies of the development and course of selected nationalist movements in European-

ruled Africa. **P: So. stdg.**

- HIS 485 Society and Belief Systems in Africa** (3) II (Same as AFS 485, BKS 485)  
Examination of the social institutions of black Africa; the roles and meaning of the “tribe”, ethnicity and the family. **P: So. stdg.**
- HIS 487 History of West Africa** (3) OD (Same as AFS 487, BKS 487)  
History of Africa south of the Sahara and west of the Cameroons Highlands, African cultural traditions, contact with Islam and the West, the State building, the European invasions, the colonial period, and reemergent states. **P: So. stdg.**
- HIS 489 Southern Africa: The Politics of Race** (3) OD (Same as AFS 489, BKS 489)  
Examination of the historical development of the social and political structures of modern Southern Africa. Primary focus on South Africa, Rhodesia-Zimbabwe, and Namibia. Analysis of the place of “race” in national policies. Includes apartheid, black nationalism, decolonization, guided democracy, and the interrelationship between economic developments and the social and political systems. **P: So. stdg.**
- HIS 493 Directed Independent Readings** (1-3) I, II, S  
May be repeated to a limit of six hours. **P: DC.**
- HIS 497 Directed Independent Research** (1-3) OD  
May be repeated to a limit of six hours. **P: DC.**
- HIS 498 Supplemental History Program** (1) OD  
May be repeated to a limit of three hours. **P; DC.**
- HIS 500 Senior Seminar** (3) II  
An integrative consideration of a major historical theme. Required of all senior history majors. **P: Sr. HIS major.**
- HIS 524 History of Ancient Israel** (3) OD (Same as CNE 524, THL 524)  
An examination and reconstruction of the history of ancient Israel from biblical and other ancient near eastern literary texts, and from archaeological and epigraphic materials. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**
- HIS 540 Contemporary International Relations** (3) II  
The historical foundations of contemporary international relations: includes international politics, international law, and relevant case studies. **P: So. stdg.**
- HIS 544 History of Ireland** (3) AY  
Course in the historical evolution of the Irish people and nation. Topics include the pre-Christian period, migrations and settlements of peoples into Ireland and abroad from Ireland to create the Irish diaspora, the Elizabethan Wars, and the Great Famine. Irish nationalism, the emergence of the Irish Republic, and recent developments in the Irish Republic and Northern Ireland. **P: So. stdg.**
- HIS 545 Modern France** (3) OD  
France during the Restoration; modernization under the July Monarchy and Second Empire; the problems and instability of the Third Republic; the era of the two World Wars; DeGaulle and contemporary France. **P: So. stdg.**
- HIS 546 Modern Germany** (3) OD  
Rise of Prussia and Austria; the impact of revolution and reaction; the Austro-Prussian dualism; Bismarck and the new nation-state; the Wilhelmian era and its crises; the republican experiment; Germany’s rise and fall under Hitler; postwar division and reunification as Federal Republic. **P: So. stdg.**
- HIS 547 Contemporary Europe Since 1945** (3) OD  
Examination of Europe since 1945; the partition and reorganization of Europe under American and Russian auspices; political and economic reconstruction in East and West; the quest for unity in the West; social and cultural changes; successes and failures of the new society. Emphasis on Western Europe. **P: So. stdg.**
- HIS 548 Russian History: 1905 to the Present** (3) I, AY  
Revolution of 1905; World War I; Revolutions of 1917; Allied intervention; Civil War; NEP;

Stalin-Trotsky rivalry; Stalin and the Second Revolution; World War II; relations with Eastern Europe, Asia, and the United States; internal political, economic, and literary movements from Khrushchev and Brezhnev through Gorbachev, Yeltsin, and Putin. **P: So. stdg.**

- HIS 562 Foreign Relations of the United States, 1898-1945** (3) I, AY  
Analysis of the domestic and international forces that confronted the United States between 1898 and 1945, and how these forces shaped American foreign policy from the Spanish-American War through World War II. **P: So. stdg.**
- HIS 563 Foreign Relations of the United States Since 1945** (3) II, AY  
Continuation of HIS 562. HIS 562 is not prerequisite for HIS 563. Analysis of the origins of the Cold War; development of the “containment” policy and the alliance system of the United States under Truman and Eisenhower; foreign policies of the Kennedy-Johnson administrations; the Nixon-Kissinger policy of “detente”; the Ford, Carter, Reagan, Bush, and Clinton administrations. **P: So. stdg.**
- HIS 565 The United States and Canada: The Siamese Twins of North America** (3) I  
A phrase coined in the 1940s, are Canada and the United States still “the Siamese Twins of North America who cannot separate and live”? The U.S. and Canada are each other’s greatest trading partner, are jointly responsible for continental security, and are fiercely committed to their own independence. But the U.S.A. invaded Canada three times, called itself the “Army of Occupation” during World War II, and “lost” draft-dodgers to Canada during the Vietnam War. In an age of regional trading blocs and continental integration, explore the relationship between these neighbors that share the world’s longest undefended border. **P: So. stdg.**
- HIS 566 United States and the Middle East Since World War II** (3) AY  
Survey of American foreign policy in the Middle East from World War II to the present. Topics include Truman’s Containment Policy in the Middle East; Truman and Israel; the Baghdad Pact; the Suez Crisis; the Eisenhower Doctrine; the Six-Day War of 1967; the effects of the Arab-Israeli War of 1973 and the oil embargo; Camp David Accords; the Carter Doctrine; Reagan and the Middle East. **P: So. stdg.**
- HIS 567(345) Change and Revolution in the Modern Middle East** (3) I  
An examination of social, economic, and political change in the Arab Middle East in the twentieth century. Topics include Arab nationalism and the struggle against Western domination, the rise of authoritarian regimes in Egypt, Iraq, and Syria, the challenge of Islamic fundamentalism, and the prospects for democratic reform in the region. **P: So. stdg.**
- HIS 570 History of Canada** (3) OD  
Founding of New France; Anglo-French rivalry; Canada and the American Revolution; War of 1812; evolutionary process to independence; Canadian Confederation, 1867; World War I; Statutes of Westminster, 1931; World War II; Canadian-American relations, 1775 to the present; Trudeau Era; relationship of contemporary Quebec to the Confederation. **P: So. stdg.**
- HIS 577 Cuba Under Castro** (3) OD  
The roots of the revolution from the earliest days of Cuban independence through the frustrated movement of 1933. The emergence of Fidel Castro and his M-26 rebellion in the overthrow of Batista. Castro’s revolutionary domestic and international programs and the continuing controversies surrounding them. **P: So. stdg.**
- HIS 583 Introduction to Historic Preservation** (3) II, AY  
An introduction to the theory and practice of historic preservation. The reasons for preservation; the history of the preservation movement; Federal, state, local, public and private preservation programs; case studies of preservation projects; a brief overview of American historical architecture. **P: So. stdg.**
- HIS 585 Public History Internship** (3-6) I, II, S  
A supervised on-the-job experience at government or private agencies in applying historical knowledge and methods to cultural resources management, museum and/or archival work, historic preservation, and other areas of public and applied history. HIS 585 may be taken twice for a total of 6 credit hours, but only 3 of those hours may be used toward the history major. **P: HIS major; Jr. stdg.; DC.**

- HIS 593 History of India: The Land of Bharata (3) AY**  
A comprehensive analysis of India from pre-Aryan times to the present. Topics include Indian religions; Mogul Empire, Emperor Asoka; the Sikhs; Westerners to India and British colonization; the Carnatic and the Anglo-Afghan Wars; 1857 Mutiny; Indian nationalism, Rabindranath Tagore, Congress party, Motilal and Pandit Nehru, and Mohandas Gandhi; Muslim League and Muhammad Ali Jinnah; the dilemma of Kashmir; relations with Pakistan and the United States, Indira Gandhi and the Sikhs, Rajiv Gandhi, contemporary politics. **P: So. stdg.**
- HIS 595 Special Problems in History (3) I, II, S**  
Course will be subtitled in the Schedule of Courses. May be repeated to a limit of six hours.
- Graduate-level courses (600-700-series courses, open only to graduate students) offered by the Department of History are listed in the Graduate School issue of the *Creighton University Bulletin*.

## HONORS PROGRAM

- HRS 100 Honors Foundational Sequence I: Beginnings of the Christian Intellectual Tradition (3)**  
A study of the beginnings of the Christian intellectual tradition. Students acquire an ability to situate the Christian intellectual tradition within the complex cultural context of the ancient Mediterranean world and the Near East. **P: Only open to students in the Honors Program.**
- HRS 101 Honors Foundation Sequence II: The Rise of the West (3)**  
A study of the development of Christianity from antiquity through the Reformation, and of its fundamental role in forming and fracturing the broad intellectual underpinnings of Western civilization. **P: Only open to students in the Honors Program**
- HRS 200 Honors Foundational Sequence III: The Modern World (3)**  
A study of the challenges posed by modernity to traditional Christian understandings of the world, and of Christianity's responses to these challenges. **P: Only open to students in the Honors Program.**
- HRS 301 Sources and Methods: The Epistemology of Political Science (3)**  
This course is an introduction to the study of politics. The focus will be on methods in the social sciences. That is, we are going to consider ways of knowing in political science. How do we know? The seminar will necessarily deal with paradigms, particularly how paradigms establish both ontological and epistemological bases for research and in so doing establish the boundaries of a discipline. **P: Only open to students in the Honors Program.**
- HRS 302 Sources and Methods: Research in the Writing of Poetry (3)**  
This course will explore the role of research in the inspiration and composition of imaginative writing, specifically poetry. Students will practice various methods used in the process of creating poetry that is inspired and informed by research and learning in areas other than literature. Our central questions will be: How do poets write poems based on research into history, biography, science? What part does research play in the inspiration of poems? How do facts drawn from research and the poetic imagination interact? How do poets - how will you - choose areas to research? Can subject matter be drawn from and expand on, for example, daily interests and activities, such as other courses one is taking? In addition, students will explore the various elements of poetic form and craft. **P: Only open to students in the Honors Program.**
- HRS 303 Sources and Methods: Fuzzy Math Logic (3)**  
In the twenty-first century many mechanical devices have gained the ability to react to their environment: for example a clothes drier can sense the moisture content of its content and adjust the temperature and drying time to do a good job. The critical technology has turned out to be fuzzy controllers, which are used to dry clothes, steer cars, and fly space shuttles. This course covers the basic foundations of fuzzy set theory and fuzzy logic. The emphasis is on the modeling of linguistic systems. The second portion of the class will focus on the major applications of fuzzy set theory, fuzzy controllers. Additional topics may include similarity, pattern recognition and fuzzy linear programming. **P: Only available to students**

in the Honors Program.

- HRS 304 Sources and Methods: Non-Citizens in Democratic Athens (3)**  
This Sources and Methods course provides a detailed examination of issues pertaining to citizenship and social status in ancient Athens. By studying resident aliens (“metics”) and their role under the democracy of the 5th and 4th centuries B.C.E., you will be introduced to the study and practice of ancient history. **P: Only open to students in the Honors Program.**
- HRS 305 Sources and Methods: Intelligence: Multiple Perspectives (3)**  
This Sources and Methods course explores the concept of intelligence from a variety of psychological perspectives. Students will be introduced to the science of psychology and its methodologies using the study of intelligence as the unifying theme. They will read scientific articles, books, and articles from the popular press. **P: Only open to students in the Honors Program.**
- HRS 306 Sources and Methods: Organizational Learning: Finding Your Place in the World (3)**  
This Sources and Methods course focuses on organizational communication and narrative inquiry as a unique means for understanding the world and our places in it. Students draw upon the elements of human agency (Burke) to reflect on how organizational assimilation (socialization and individualization) occurs and how they, as individuals, learn about, interpret, influence, and create organizational change through continuous learning processes. **P: Only open to students in the Honors Program.**
- HRS 307 Sources and Methods: Writing Our Lives: Identity and Cultures in Personal Writing (3)**  
This Sources and Methods course invites you to study and practice personal writing in forms ranging from essay to memoir to criticism. **P: Only open to students in the Honors Program.**
- HRS 308 Sources and Methods: The Theology of Medieval Women (3)**  
This Sources and Methods course introduces students to the theology and spirituality of medieval women. **P: Only open to students in the Honors Program.**
- HRS 309 Sources and Methods: Philosophy and Economics: Method and Horizon of Discourse (3)**  
This Sources and Methods course uses Veblen's critique of the foundations of neoclassical economics as an approach to broader questions involving the philosophy of social science, the history of economic thought, the anthropology of economic life, critical social theory, political theory, the history of ethics, and economic history. **P: Only open to students in the Honors Program.**
- HRS 310 Sources and Methods: Metaphysics of Film (3)**  
This Sources and Methods course in the Honors Program explores the multiple senses of “film” (long strip of plastic, cinematic art object, separated form, means of understanding the structure of the World) as an approach to the most basic branch of academic philosophy: metaphysics. The course involves a mixture of film viewing, critical reading, classroom discussion and lecture, and on-line activities. **P: Only open to students in the Honors Program.**
- HRS 311 Sources and Methods: Graph Theory (3)**  
This Sources and Methods course in the Honors Program is an introduction to what is arguably the best modeling tool ever invented. Graph theory plays a very important role in many fields, including mathematics, computer science, game theory, and project management. Students will conduct research on graph theory to experience the very process of the research itself. **P: Only open to students in the Honors Program.**
- HRS 312 Sources and Methods: Gödel, Escher, Bach (3)**  
This Sources and Methods course in the Honors Program uses an intensive study of Douglas Hofstadter's *Gödel, Escher, Bach* as an introduction to human creativity and problem-solving ability. Problems like the Zeno Paradox, the Liar's Paradox, and the Prisoner's Dilemma originally seem insurmountable. Yet paradox really means that our assumptions are leading us to jump to unwarranted conclusions; the solution of such puzzles has historically led to some of the greatest discoveries in science and mathematics. **P: Only open to students in the Honors Program.**
- HRS 313 Sources and Methods: European Literary Modernism (3)**  
This Sources and Methods course in the Honors Program concerns 20th century European writers of the Modernist movement who consciously broke with 19th century literary tradi-

tions in the effort to “make it new” through experimentation in poetry, fiction, and drama. **P: Only open to students in the Honors Program.**

**HRS 314 Sources and Methods: The View of Life - Evolutionary Biology (3)**

This “sources and methods” course in the Honors Program examines the fundamental concepts of modern evolutionary biology and how they are studied. Students examine the nature of science; the distinction between science and pseudoscience; types of explanation, modes of reasoning, and levels of analysis; and ways by which evolutionary hypotheses may be tested. **P: Only open to students in the Honors Program.**

**HRS 315 Sources and Methods: Imagination to Invention (3)**

This “sources and methods” course in the Honors Program examines the nature of chemistry as a discipline: what makes it unique, and what unites it to other disciplines? In particular, the course investigates the origin of ideas and concepts in chemistry, and seeks to relate them to basic principles of creative thought. **P: Only open to students in the Honors Program.**

**HRS 316 Sources and Methods: American Identity in the World (3)**

This “sources and methods” course in the Honors Program examines the ways in which Americans construct themselves and are constructed by others elsewhere in the world. The course explores the ideologies and rhetorical strategies, as well as the material realities and lived experiences, at work in defining what it means to “be” an American, both for those residing in the U.S. and for those who have never set foot on U.S. soil. **P: Only open to students in the Honors Program.**

**HRS 317 Sources and Methods: European Metropolis 1900 (3)**

This “sources and methods” course in the Honors Program is an introduction to the techniques of cultural history. It examines the creation and experience of European capital cities during the turn of the twentieth century, paying particular attention to the artistic and technological innovations that marked this critical period of urbanization. **P: Only open to students in the Honors Program.**

**HRS 318 Sources and Methods: Animals, Persons, and Ethics (3)**

This “sources and methods” course in the Honors Program introduces philosophical methods by way of the study of the nature of animals, the nature of persons, and the ethical dynamics between persons and animals. The course draws on literary and philosophical texts, ethological studies, and films to examine the complex ethical, social, and metaphysical relationships between persons and animals. **P: Only open to students in the Honors Program.**

**HRS 497 Directed Independent Research (3)**

Course undertaken in the department of one’s major. Students may not register for this course until research has been approved by the departmental research director. May be repeated twice. **P: IC.**

## *INTERDISCIPLINARY COURSES*

**IDC 491 Women in Science (1) II**

Course designed to provide an historical overview of women in science while focusing on current practices. Discussion will emphasize barriers that women have faced in the past and strategies for coping, presently, in what is no longer a “man’s field.” Class meets once a week.

## *INTERPROFESSIONAL EDUCATION (IPE)*

Various health sciences professionals are involved in teaching these courses.

**IPE 410 Foundation in Patient Safety (2-4)**

This course is designed to educate health professions students about the fundamental core knowledge of patient safety. Faculties representing various disciplines teach the content from a patient-centered focus within an inter-professional framework. Concepts of safe systems will serve as an overarching principle to patient safety. By engaging in a series of modules complimented by case-based exercises, participants will learn the scope of the problem of patient safety, and acquire the skills to foster a culture of continuous learning and incorporation of patient safety best practices and improvements in their own individual professional

practices. A two credit hour core is offered; with a three or four credit hour option for students who choose additional experiences. Three credit hours may be earned by a written in-depth evaluation of a contemporary issue; four credit hours may be earned by adding a field evaluation or exploration of the safety question with a written evaluative report.

## *ITALIAN*

- ITA 101 Beginning Italian I (3) I, II**  
This course is designed to focus on the essential elements of basic communication and develop all four language skills (listening, speaking, reading and writing), as well as provide insight into Italian life and culture.
- ITA 102 Beginning Italian II (3) I, II**  
Continuation of ITA 101. **P: ITA 101 or equivalent.**
- ITA 201 Intermediate Italian I (3) I, II**  
This course focuses on the essential elements of basic communication. It is designed to develop all four language skills (listening, speaking, reading and writing), and to provide insight into Italian life and culture. **P: ITA 102 or equivalent.**
- ITA 202 Intermediate Italian II (3)**  
Development of a more advanced ability in reading, speaking, listening and writing in Italian. **P: ITA 201 or equivalent.**

## *JAPANESE*

- JPN 101 Beginning Japanese I (3) I**  
Course designed to focus on the essential elements of basic communication and develop all four language skills (listening, speaking, reading and writing), as well as provide insight into Japanese life and culture.
- JPN 102 Beginning Japanese II (3) II**  
Continuation of JPN 101. **P: JPN 101 or equivalent.**
- JPN 201 Intermediate Japanese I (3) I**  
Course designed to help students make the transition to natural communication and develop further all four language skills (listening, speaking, reading and writing), by using literary/cultural readings and grammatical exercises. **P: JPN 102 or equivalent.**
- JPN 202 Intermediate Japanese II (3) II**  
Development of a more advanced ability in reading, speaking, listening and writing in Japanese. **P: JPN 201 or equivalent.**
- JPN 225 Kanji Writing (3)**  
This class imparts a knowledge of the Kanji system of writing. **P: JPN 101 or IC.**
- JPN 311 Advanced Japanese I (3) I**  
Development of refined and accurate expression in speaking and writing Japanese. **P: JPN 202 or equivalent.**
- JPN 312 Advanced Japanese II (3)**  
Development of refined and accurate expression in speaking and writing Japanese. **P: JPN 202 or equivalent.**

## *JOURNALISM AND MASS COMMUNICATION*

*For the Journalism Program of Study, please refer to page 156.*

- JMC 111 Introduction to Mass Communication (2) I, II**  
Students explore broad aspects of mass communication from the mass media's role in society to an examination of careers and options available to majors in news, broadcasting, public relations, advertising, design and photography.
- JMC 219 News Reporting (3) I, II, S**  
Students learn basic news writing forms and techniques and develop their interviewing and writing skills in gathering and writing news and feature stories for the student newspaper.

The course also introduces students to ethical, legal and other issues surrounding the role of media in a democratic society.

- JMC 313 Principles of Advertising (3) I**  
The course examines the principles and media of advertising and evaluates advertising's role in society and in business.
- JMC 321 Advanced Reporting (3) II**  
The advanced course builds on skills and concepts developed in JMC 219, News Reporting. Students research and write in-depth news articles for publication in campus media and beyond, focusing on specialized forms of reporting about government, business and politics. The course also emphasizes using computer tools, documents, data collection and analysis in the reporting. **P: JMC 219.**
- JMC 322 Feature Writing (3) I**  
The course explores the art of writing numerous types of features for newspapers and magazines including personality profiles, in-depth examinations of issues and problems, reviews, columns, editorials and humor. Course will stress research, writing and analytical skill development. Students also learn free-lance writing techniques and methods. **P: JMC 219 or IC.**
- JMC 323 Principles of Public Relations (3) I, S**  
The course examines the function of public relations in contemporary communications, business and society and the methods of disseminating information and persuasion by businesses and social organizations. Students work in teams to use those concepts to develop public relations campaigns for on-campus or nonprofit clients.
- JMC 325 Digital Video Photography (3) I (Same as ART 325, NAS 325)**  
Students learn how to use a video camera to shoot and produce a narrative documentary using computer editing programs. Students produce their own five-minute documentary.
- JMC 326 Sportswriting (3) II**  
This in-depth course in the art of sportswriting provides students with experience in covering sports. The topics include how to interview coaches and players, how to obtain and report on sports statistics and how to write a variety of sports features. **P: JMC 219.**
- JMC 331 Editing (3) I, II**  
The course introduces students to the fundamentals of preparing copy for publication by emphasizing grammar, punctuation, style, consistency, clarity and accuracy. Students learn to work with writers, to write headlines and captions, to develop infographics and to be aware of ethical, legal and taste considerations when editing. **P: JMC 219.**
- JMC 335 History of American Mass Media (3) I, II**  
The course surveys mass media in America and its role in society from the forerunners of the newspaper, to contemporary newspapers and magazines, the development of broadcasting and cable and current trends in electronic and print media.
- JMC 339 Case Studies in Public Relations (3) II**  
The course examines how business, government and social welfare groups handle problems in public relations and how attempted solutions to such problems have succeeded or failed. **P: JMC 323.**
- JMC 341 Public Relations Writing (3) II, S**  
The course offers an in-depth examination and hands-on experience in writing the various forms and formats involved in public relations including press releases, sight and sound, photos, professional journals, press conferences and press briefings, special events and crisis situations. **P: JMC 323, or IC.**
- JMC 347 Advertising Campaigns (3) II**  
This course provides integrated and comprehensive experiences in advertising decision making. Experience gained in advertising principles, and advertising media writing is culminated in planning, executing and proposing a comprehensive advertising campaign. Working in teams, students will approach and solve advertising problems as an agency would for a client. May be repeated up to three times. **P: JMC 313, 323 or IC.**



- JMC 361 Technical Public Relations Writing (3) I**  
The course introduces students to technical writing basics from writing and editing technical materials to working with designers on preparing the materials for publication. Students complete projects in the principal forms of technical writing including proposals and instruction manuals. **P: JMC 219 or IC.**
- JMC 365 International Mass Communications (3) II**  
The course examines the role of the mass media in an era of globalization and mass media's impact on societies throughout the world, emphasizing the issue of freedom of expression and of the press. The countries studied reflect areas of special contemporary interest.
- JMC 375 Photojournalism I (3) I, II (Same as ART 375, NAS 375)**  
The course introduces photography as a means of reporting the news, including the use of film and/or digital cameras to prepare photographs for print or Web publication.
- JMC 377 Editorial Illustration (3) (Same as ART 377)**  
The classes and assignments in the studio-lighting course are structured to the type of assignments a working photojournalist would receive, including portrait, fashion, food product and editorial illustration. **P: JMC 375.**
- JMC 378 Photojournalism II: Picture Editing (3) I (Same as ART 378)**  
The course examines the principles of design for newspapers and magazines with an emphasis on using photographs in the design. **P: JMC 375.**
- JMC 379 Print Design (3) I, II, S (Same as ART 379)**  
The course introduces design of the printed page using typography, photographs and graphics. Students learn through hands-on computer assignments and critiques.
- JMC 381 Computer Illustration (3) I, II (Same as ART 381)**  
The course uses the Apple computer and a variety of computer graphic tools to develop skills and creativity in illustrating editorial and visual ideas. Students will work with and combine visual elements from photographs and artwork.
- JMC 382 Web Design (3) I, II, S (Same as ART 382)**  
The course introduces the design of online publications, including elements of online layout, typography, and graphics to create well-designed web sites.
- JMC 423 Interactive Multimedia Design (3) II (Same as ART 423)**  
The course examines interactive media aesthetics and concerns. The course explores techniques in designing multimedia for the Web and CD-ROM distribution. **P: JMC 381, 382 or IC.**
- JMC 424 Typography and Advanced Projects (3) I, II (Same as ART 424)**  
The course is an intense examination of the use of typography in both historical and modern contexts. Students will learn effective ways to utilize type in a variety of digital and print media, with lectures in aesthetic, strategic and technical use of final projects that will showcase the strategic use of appropriate custom digital and hand-rendered typography. **P: JMC 379.**
- JMC 425 3D Graphics and Animation (3) (Same as ART 425)**  
An advanced 3D computer graphics and animation course that builds on the design and illustration concepts developed in the fundamental JMC graphic design courses. Students will learn to develop illustrations in a three dimensional space and learn the basics of 3D animation. **P: JMC 379.**
- JMC 433 Advertising Copy Writing (3) II**  
The course explores techniques in writing advertising copy for all media using practical assignments. **P: JMC 313 or 323.**
- JMC 438 Media Ethics (3) I, II, S**  
This course explores the theoretical and practical ethical questions of mass communication as judged through the application of moral principles. Discussion of issues via case studies and simulation. **P: JMC or GDE major, Jr. stdg.**

- JMC 440 Media Research (3) I, II**  
This course covers the theoretical and practical dimensions of mass communication research. Mass communication theories, sampling methodologies, and qualitative methods are discussed and applied in depth in addition to survey design, data measurement, and data analysis. The course introduces students to the statistical analysis and interpretation of data. **P: Jr. stdg.**
- JMC 452 Science, Media, and Risk (3) OD (Same as EVS 452, PHL 452, SRP 452)**  
This course examines how science determines environmental and biotechnological risk, how media communicate these risks, and how the public understands risk. The course explores the use of values (as well as the values used in specific cases) by each stakeholder to determine what kind of risk is acceptable. It also explores ethically acceptable decision-making processes, including making the public voice more of a part of that process. The course involves reading and discussion online prior to a week-long intensive international workshop during the summer on the issues in Borgholm, Sweden. The course continues on-line after the summer school experience, culminating in a writing assignment tailored to the student's skill development and academic/career interest. **P: Sr. stdg.; PHL 250 or THL 250.**
- JMC 455 Projects in Communication (1-3) I, II, S**  
Students develop a project in any of the mass media that is approved by a faculty member. The course may be repeated until a maximum of six credit hours have been accrued. No more than 12 semester hours of credit may be accrued in any combination of JMC 455, 479, 481, 483, 485, 487, and 493. Graded Satisfactory/Unsatisfactory. **P: IC.**
- JMC 477 Advanced News Production (1-3) I, II**  
Students gain experience by working for one of the department's student media including *The Creightonian* or the Bluejay Yearbook. May be repeated for up to nine credit hours. **P: JMC 219; IC.**
- JMC 479 Visual Communications Internship (1-3) I, II, S (Same as ART 479)**  
Students will gain professional experience in graphic design through working in supervised graphic design jobs. Graded Satisfactory/Unsatisfactory. **P: JMC 379; IC.**
- JMC 481 Broadcast Internship (1-3) I, II, S**  
Students gain professional experience through working for a radio, television or cable organization on a part-time basis for a semester or during an interterm period on a full-time basis. No more than 12 semester hours of credit may be accrued in any combination of JMC 455, 481, 483 and 493. Graded Satisfactory/Unsatisfactory. **P: JMC 219; IC.**
- JMC 483 Public Relations Internship (3) I, II, S**  
Students gain professional experience by placement in a public relations department or agency on a part-time basis for one semester (or appropriate period during summer or interterm periods on either a full- or part-time basis) to learn how particular problems in public relations are handled and the methods used by that department or agency to communicate with its various publics. May be repeated. No more than 12 semester hours of credit may be accrued in any combination of JMC 455, 481, 483, 485, 487 and 493. Graded Satisfactory/Unsatisfactory. **P: JMC 323; IC**
- JMC 485 News Internship (1-3) I, II, S**  
Students gain professional experience with placement in news medium or agency on a part-time basis for one semester (or appropriate period during summer or interterm periods on either a full- or part-time basis) to gain practical experience in news gathering, writing and editing. No more than 12 semester hours of credit may be accrued in any combination of JMC 455, 481, 483, 485, 487 and 493. Graded Satisfactory/Unsatisfactory. **P: JMC 219; IC.**
- JMC 487 Advertising Internship (1-3) I, II, S**  
Students gain professional experience by placement in a communications medium or agency on a part-time basis for one semester (or appropriate period during summer or interterm periods on either a full- or part-time basis) to gain practical experience in the procedures and functions of planning, preparing, placing and selling advertising messages and materials. May be repeated. No more than 12 semester hours of credit may be accrued in any combination of JMC 455, 481, 483, 485, 487 and 493. Graded Satisfactory/Unsatisfactory. **P: JMC 313; IC.**
- JMC 493 Directed Independent Readings (1-3) S (OD)**  
Students work with a faculty member who agrees to supervise the directed independent readings. May be repeated until a maximum of six credit hours has been accrued. No more than 12 credit hours may be accrued in any combination of JMC 455, 481, 483, 485, 487 and 493. **P: IC**

- JMC 529 Law of Mass Communication (3) I, II**  
The course examines the legal limitations and privileges affecting publishing and broadcasting including libel, copyright, constitutional guarantees and restrictions on freedom of the press, the FCC, FTC, etc. **P: Jr. stdg.**

## **JUSTICE AND PEACE STUDIES**

*For the Justice and Peace Studies Program of Study, please refer to page 157.*

- JPS 331 Jesus Christ: Liberator (3) (Same as THL 331)**  
The powerful and almost irresistible aspiration that people have for liberation constitutes one of the principal signs of the times which the church has to examine and interpret in light of the gospel. Christology from the perspective of liberation asks concretely "What do we need to be liberated from in order to know and love Jesus Christ?" **P: THL 100; a 200-level Scripture course; So. stdg. Only service-learning sections of this course satisfy the JPS requirement.**
- JPS 335 Jesus Christ: Yesterday and Today (3) OD (Same as THL 335)**  
An historical and critical analysis of the meaning of the man Jesus of Nazareth as developed in the New Testament and in later Christian traditions. Special emphasis on contemporary theological attempts to answer the perennial question: "Who is this man?" **P: One 200-level THL/PHL/JPS course and Jr. stdg. Only service-learning sections of this course satisfy the JPS requirement.**
- JPS 341 Ecclesiology in Context: The Church in El Salvador (3) (Same as THL 341)**  
The premise of this course is that the Central American nation of El Salvador provides a unique opportunity for understanding how one local church tried to heed the call of the Second Vatican Council to read the signs of the times and interpret them in the light of the Gospel.
- JPS 360 Social Justice in Theory and Practice (3) S (Same as THL 360)**  
Experiential and academic inquiry into the sources of social injustices and remedies to them as seen from a Christian perspective. A service/immersion course offered in various locations. **P: THL 250 or PHL 250 and IC; Jr. stdg.**
- JPS 361 Social Justice in the Dominican Republic (6) I (Same as EDP 361, THL 361)**  
A multi-disciplinary study of the history, sociology, politics, economics and religion of the Dominican Republic and the Caribbean. Classroom work is integrated with service-learning and cultural immersion in a context of ethical analyses and reflection. **P: DC only.**
- JPS 365 Faith and Moral Development (1) I, II (Same as THL 365)**  
A series of three one-credit-hour mini-seminars taken over three consecutive semesters. Each seminar will examine a theory of faith or moral development and a biography of a social activist such as Dorothy Day or Martin Luther King, Jr. May be repeated for a maximum of 4 credits **P: PHL/THL 250 and Jr. stdg.**
- JPS 444 Non-Violence and Peaceful Resolution of Conflict: Cross-Cultural and Political Perspectives (3) OD (Same as ANT 444, PLS 444, SRP 444)**  
Peace is more than the absence of war. Course seeks to understand differing views of peace, violence, war, non-violence, and peaceful resolution of conflict. Students assess their views on alternatives to violence and apply differing modes of conflict resolution. **P: Sr. stdg.**
- JPS 495 Directed Independent Study (1-4) OD**  
Offered especially for JAS majors but open to any interested student. May be repeated to a limit of 6 hours. **P: IC.**
- JPS 499 Senior Seminar (3) II**  
Exploration and appraisal of the diverse ways individuals and organizations work for social change. Readings, interviews, and guest speakers from the campus and the community. Required for Justice and Peace Studies minors and Justice and Society majors, the seminar also explores career opportunities in the field and the necessary preparation. **P: Sr. Stdg.**
- JPS 565 Catholic Social Teaching (3) II (Same as THL 565)**  
Historical development of Catholic social teaching from the 1891 publication of "The Condition of Labor" to the present. Students are encouraged to apply the core insights of the tradition to contemporary issues. Required of JPS minors and JAS majors. **P: Two previous THL courses; Jr. stdg.**

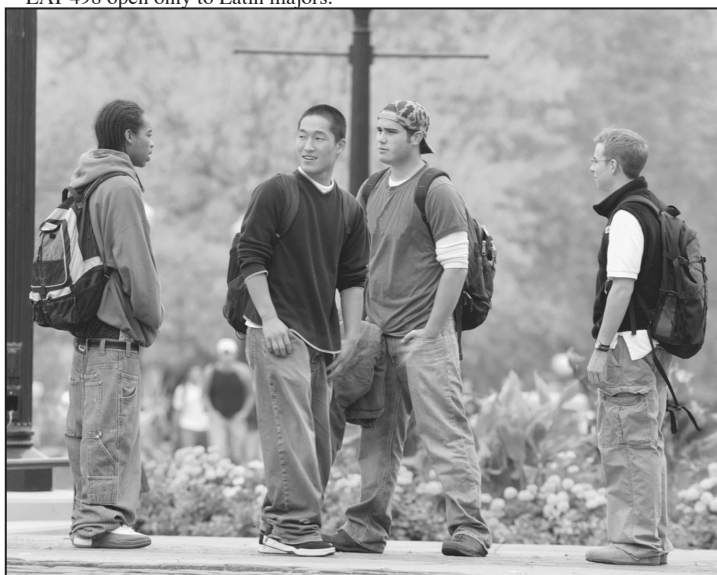
- JPS 588 Christian Ethics of War and Peace (3) I** (Same as THL 588)  
Introduction to the development and application of Christian ethical perspectives on the use of lethal force from the biblical period to the present day. Just war theory and pacifism in both Catholic and Protestant traditions; at least one non-Christian perspective on war. Special attention given to the formation of personal conscience in reflection on public policy and world events, both historical and current. **P: PHL or THL 250, Jr. stdg.**

## *LATIN*

*For the Latin Program of Study, please refer to page 122.*

- LAT 101 Beginning Latin I (3) I, II**  
Basic vocabulary, syntax and morphology for reading Classical Latin.
- LAT 102 Beginning Latin II (3) I, II**  
Completion of study of basic vocabulary, syntax, and morphology. **P: LAT 101 or equiv.**
- LAT 115 Intensive Beginning Latin (6) S**  
Intensive introduction to the grammar and vocabulary of Latin. Course will cover all of the basic grammatical elements of Latin and introduce much of the basic vocabulary; at the end of the course some Latin authors will be introduced to present the grammar and vocabulary in context.
- LAT 201 Intermediate Latin (3) I**  
Selections from Cicero's orations and/or other verse authors. This course applies and extends the language study done in LAT 101 and 102. **P: LAT 102 or equivalent.** See Latin Program of Study.
- LAT 300 Introduction to the Ancient Mediterranean World (3) OD** (Same as CNE 300, GRK 300)  
General introduction to the ancient Near Eastern, Egyptian, Greek and Roman world, focusing on the history, literature, material culture, religion and/or philosophy of each culture. Readings from ancient and modern sources.
- LAT 301 Readings in Latin (3) II, ONY**  
Selected readings of major Greek authors, such as Homer, Herodotus, or Lysias. Review of Greek grammar and syntax. Study of the prose and poetic styles of the authors read. **P: LAT 201 or equiv.**
- LAT 303 Latin Prose Composition (3) I, II**  
Presentation of sufficient material for exercising the finer points of Latin style. Imitation of the masters of Latin style, especially Caesar, Cicero, and Vergil. **P: See Latin Program of Study.**
- LAT 400 Early Latin Authors (3)**  
Students will read authors of the Early period (such as Plautus, Cato, or Terence). This course is repeatable to a max of 6 credits. **P: LAT 201 or equiv.**
- LAT 401 Early Latin Themes and Genres (3)**  
Students will pursue thematically-tied or genre-related readings of various authors of the Early period (such as the Twelve Tables, inscriptions, or readings to explore the evolution of Latin). Course may be repeated to a max of 6 credits. **P: LAT 201 or equiv.**
- LAT 402 Classical Latin Authors (3)**  
Students will read authors of the Classical period (such as Cicero, Lucretius, Catullus or Caesar). This course may be repeated to a max of 6 credits. **P: LAT 201 or equiv.**
- LAT 403 Classical Latin Themes and Genres (3)**  
Students will pursue thematically-tied or genre-related readings of various authors of the Classical period (such as a focus on epic, oratory, or historical works). This course may be repeated to a max of 6 credits. **P: LAT 201 or equiv.**
- LAT 404 Augustan Latin Authors (3)**  
Students will read authors of the Augustan period (such as Vergil, Horace, Livy, or Ovid). This course may be repeated to a max of 6 credits. **P: LAT 201 or equiv.**

- LAT 405 Augustan Latin Themes and Genres (3)**  
Students will pursue thematically-tied or genre-related readings of various authors of the Augustan period (such as a focus on historiography, elegiac poetry, or epic). This course may be repeated to a max of 6 credits. **P: LAT 201 or equiv.**
- LAT 406 Post-Augustan/late Latin Authors (3)**  
Students will read authors of the Post-Augustan and late period (such as Petronius, Lucan, Tacitus, or Augustine). This course may be repeated to a max of 6 credits. **P: LAT 201 or equiv.**
- LAT 407 Post-Augustan/late Latin Themes and Genres (3)**  
Students will pursue thematically-tied or genre-related readings of various authors of the Post-Augustan and late period (such as the Latin Church Fathers or historical topics). This course may be repeated to a max of 6 credits. **P: LAT 201 or equiv.**
- LAT 408 Medieval Latin Authors (3)**  
Students will read various authors of the Medieval period (such as Notker, Einhard, or Aquinas). This course may be repeated to a max of 6 credits. **P: LAT 201 or equiv.**
- LAT 409 Medieval Latin Themes and Genres (3)**  
Students will pursue thematically-tied or genre-related readings of various authors of the Medieval period (such as a focus on history, Carolingian biography, etc.). This course may be repeated to a max of 6 credits. **P: LAT 201 or equiv.**
- LAT 410 Diachronic Readings in Latin (3)**  
Students will read works by Latin authors from different periods. They will be linked in any number of ways, e.g., by genre, theme, or subject matter. This course may be repeated to a max of 6 credits. **P: LAT 201 or equiv.**
- LAT 411 Readings in Greek and Latin (3) (Same as GRK 411)**  
Students will pursue thematically-linked reading of the works of Greek and Latin authors from different periods (such as comparative readings in drama, or philosophy, or historiography). May be repeated to a max of 6 credits. **P: LAT 201 or equiv.**
- LAT 493 Directed Independent Readings (2-4) I, II, S**  
Designed to meet the special needs of qualified students. Credit by arrangement. May be repeated to a limit of six hours.
- LAT 498 Senior Capstone Seminar (3) II (Same as CNE 498, GRK 498)**  
Directed research on a general topic; preparation and public presentation of a senior thesis. LAT 498 open only to Latin majors.



## LINGUISTICS

### LNG 511 General Linguistics (3)

The nature of language, sound and symbol, dialect and language, the languages of the world, methods and disciplines of modern linguistics, phonetics, morphology, syntax, lexicology, the comparative method and related topics.

## MANAGEMENT

*Professor Moorman; Associate Professors Hoh, Wells (Chair), and York.*

*Requirements for Management as the field of concentration—see page 235.*

### MGT 301 Managerial Process and Organizational Behavior (3) I, II, S

An integrated approach to organization processes and behavior focusing on both individual and organization variables. Covers the behavioral science and the managerial perspective. Micro-oriented individual variables/concepts include personality, stress, perception, motivation, and learning. Interpersonal and group behavior variables/concepts include communication, power, politics, leadership processes and styles. Macro variables deal with organization structure, decision-making, control, and development/change. **P: Jr. stdg.**

### MGT 341 Advanced Organizational Behavior (3) OD

Development of an in-depth understanding of behavioral concepts, methods, and skills which underlie managerial competence in preventing and solving problems within and between individuals and groups. Theoretical review of motivation, group dynamics, leadership behaviors, and organizational change. Various laboratory exercises and cases are used to highlight the concepts and furnish practice in applying them to management problems. **P: MGT 301.**

### MGT 351 Personnel/Human Resources Management (3) OD

Management's approach to and the principles for handling the human factor in an enterprise to maximize the productive efficiency of the firm through sound procurement, development, utilization, and maintenance of its human resources. Emphasis placed on personnel theory. Findings of the behavioral and social sciences as they relate to work are integrated with personnel philosophy, policy, and practice. **P: MGT 301; Jr. stdg.**

### MGT 373 International Management (3) I

A global perspective of the practice of management. Topics include issues of social responsibility, corporate strategy, communication, and human resource management. **P: MGT 301.**

### MGT 374 Management of Environmental Risk (3) OD (Same as EVS 374)

Examination of environmental issues relevant to management decision making. Emphasis on risk analysis related to global/regional and workplace environmental issues. **P: Jr. stdg.**

### MGT 385 Production and Operations Management (3) I, II

Course treats production and operations as a major function area of business and stresses the management of the production and operations function. Where appropriate, quantitative topics are presented and solution techniques introduced to achieve a balanced view. **P: BUS 229; Jr. stdg.**

### MGT 475 Consulting in an Entrepreneurial Environment (3) OD

Many skills associated with entrepreneurship cannot be learned in the classroom. Instead, they must be cultivated through experience. This course provides the opportunity for senior-level entrepreneur students to extend their classroom learning by completing consulting projects for entrepreneurial organizations, including start-ups, small and medium-sized businesses and not-for-profit organizations. **P: Sr. stdg.; ENT major; BUS 311; MKT 325; and FIN 402.**

### MGT 479 Seminar in Management (3) I, II

Exploration and analysis of selected problems and issues in today's business environment. Course content necessarily changes each semester as selected issues are discussed. This course is repeatable as long as topic differs (12 credits). **P: MGT 301 or equivalent.**

### MGT 493 Directed Independent Readings (1-3) OD

Limited to students who want to develop a more in-depth knowledge of a management subject beyond the regular course coverage and who have a GPA of 3.0 or better. May be repeated for credit to a limit of six hours. **P: Sr. stdg. and Dean's approval.**

**MGT 497 Directed Independent Research (1-3) OD**

Supervised independent research on topics beyond the regular course coverage. Course is limited to students who have a GPA of 3.0 or better. May be repeated for credit to a limit of six hours. **P: Sr. stdg; DC and Dean's approval.**

Graduate-level courses (MBA courses open only to graduate students) offered by the Department of Marketing and Management are listed in the Graduate School issue of the *Creighton University Bulletin* under the heading Business Administration (MBA).

## **MANAGEMENT INFORMATION SYSTEMS**

*Professors* Nath (Chair) and Hendrickson; *Associate Professors* Chen, Corritore and Marble; *Assistant Professor* Govindarajulu; *Professor Emeritus* Gleason.

*Requirements for Management Information Systems as the field of concentration*—see page 237.

**MIS 253 Management Information Systems (3) I, II**

An introduction to the field of management information systems and the role of information systems in today's organizations. The course focuses on key concepts including fundamental enabling technologies, database, software development, decision support and knowledge work-support systems as well as MIS systems for operations, control, and strategic planning. The organizational foundations of systems, their strategic role, and the technologies driving change in the business processes will be discussed. **P: So. stdg.**

**MIS 354 Data Base Management (3) I**

Course develops both skill and knowledge relative to data base design and management. **P: MIS 253; MIS 375; Jr. stdg.**

**MIS 375 Business Application Development (3) II**

This course provides students with an introduction to business application development using object-oriented programming. The key concepts covered by this course include algorithms and their relationship to basic object-oriented programming concepts, objects and classes, control structure, input and output, exception handling, expressions, and graphic interface design. **P: Jr. stdg.**

**MIS 459 Information Systems Analysis and Design (3) I or II**

An applied study of the process of information systems development. Lectures, discussions, readings and exercises will address the areas of information analysis, requirements determination, detailed logical design, physical design, implementation planning, computer technology and organizational behavior. Through regular deliverables associated with the cumulative project file of a running case, students will follow a widely used structured development methodology (the data flow diagramming approach) in conducting team-oriented systems analysis and design projects. **P: MIS 253; Jr. stdg.**

**MIS 464 Decision Support and Expert Systems (3) I or II**

Concepts needed to develop skills in designing and using decision support systems and expert systems in the context of business decision making. **P: MIS 253; Sr. stdg.**

**MIS 470 Data Communications and Networks (3) II**

This course provides an introduction to the concepts and terminology in data communication, networks, network design, and distributed information systems. These topics include equipment, protocols and architectures, transmission alternatives, the communication environment, regulatory issues, and network pricing and management. A combination of lectures, discussions, presentations, and student projects will be used to understand the dynamic field of data communications and issues surrounding it. **P: MIS 354 or IC.**

**MIS 479 Seminar in Decision and Information Technology (3) I or II**

The integration and application of current topics in management science, systems analysis and design, or computer and communication technology with a focus on improving decision-making effectiveness in a real-world environment. Past seminar topics include: Web Technologies, Java Programming, E-Business, Business Data Mining, Computer System Architecture and Organization, Neural Networks, Human Factors in IS, and Wireless Technologies. This course is repeatable as long as topic differs (12 credits). **P: MIS 253; Sr. stdg.**

**MIS 493 Directed Independent Readings (1-3) OD**

This is a directed readings course that investigates current developments in management information systems. The course permits individual students to pursue areas of interest

within the field of management information systems in greater depth than is covered in the normal curriculum. It also permits a student to do independent research on a specialized topic not ordinarily treated in regular course offerings. May be repeated for credit to a limit of six hours. **P: GPA of 3.0 or better; Sr. stdg.; DC and Dean's approval.**

- MIS 497 Directed Independent Research (1-3) OD**  
Supervised independent research on topics beyond the regular course coverage. Course is limited to students who have a GPA of 3.0 or better. May be repeated for credit to a limit of six hours. **P: Sr. stdg; DC and Dean's approval.**

## **MARKETING**

*Professor Workman; Associate Professor Wells (Chair); Assistant Professors Adkins and Seevers.*

*Requirements for Marketing as the Field of Concentration — see page 235.*

- MKT 319 Principles of Marketing (3) I, II, S**  
Managerial approach to the study of the fundamental concepts and principles of marketing with emphasis on understanding the marketing concept and appropriate marketing strategy. **P: ECO 203 or 301; Jr. stdg.**
- MKT 325 Franchising and Small Business Marketing (3) OD**  
Application of the marketing concept with specific strategies and tactics to the small business enterprise. **P: MKT 319; Jr. stdg.**
- MKT 333 Consumer and Market Behavior (3) II**  
Study of acts of individuals involved in obtaining and using economic goods and services, including the decision processes that precede and determine those acts: consideration of the sociological, psychological, and economic aspects of purchase behavior. **P: MKT 319; Jr. stdg.**
- MKT 335 Sales Management (3) I**  
Role of the sales administrator as a professional marketing executive. Problems of organization, planning and control of sales; formulation of sales policies and management of the sales force. **P: MKT 319; Jr. stdg.**
- MKT 343 Marketing Research (3) I**  
Basic research concepts and techniques; application of research findings to the formulation of marketing policies. **P: MKT 319; BUS 229; Jr. stdg.**
- MKT 353 Advertising and Promotion (3) II**  
The formulation and implementation of marketing communication policies and strategies relative to the total internal and external communication systems. Includes advertising, personal selling, sales promotion, and other marketing communications. **P: MKT 319; Jr. stdg.**
- MKT 355 Services Marketing (3) I**  
Strategies for marketing services. Emphasis on the distinctive challenges and approaches that make marketing of services different from marketing of manufactured goods. **P: MKT 319; Jr. stdg.**
- MKT 363 Global Marketing (3) I, II, S**  
Strategic management of international marketing activities of the firm. Planning, organizing, and implementing international marketing programs for industrial and consumer goods. Emphasis on the influence of environmental differences on marketing decisions in various countries. Lecture and case method utilized. **P: MKT 319; Jr. stdg.**
- MKT 453 Sports and Special Event Marketing (3) II**  
This course is designed to help students develop an understanding of strategic marketing concepts and activities as they apply to the sports and special events contexts. Marketing concepts and activities will be examined as they relate to the marketing of sports and marketing through sports. **P: MKT 319; Jr. stdg.**
- MKT 473 Marketing Management: Policy and Strategy (3) II**  
Formulation and application of marketing strategies and policies by the analysis and solution of industrial and consumer goods cases dealing with the market, product, channels, selling, legislation, and the total marketing program. **P: MKT 319; MGT 301; FIN 301; Sr. stdg.; marketing majors only.**



- MKT 479 Seminar in Marketing (3) I or II**  
Exploration and analysis of selected problems and issues in the marketing area of today's business environment. Course content changes from semester to semester. This course is repeatable as long as topic differs (12 credits). **P: MKT 319.**
- MKT 493 Directed Independent Readings (1-3) OD**  
Limited to students who want to develop in-depth knowledge of a marketing subject beyond regular course coverage or to investigate current developments in marketing theory and practice. Course is limited to students who have a 3.0 or better. May be repeated for credit to a limit of six hours. **P: COBA students only; Sr. stdg; DC and Dean's approval.**
- MKT 497 Directed Independent Research (1-3) OD**  
Supervised independent research on topics beyond the regular course coverage. Course is limited to students who have a GPA or 3.0 or better. May be repeated for credit to a limit of six hours. **P: Sr. stdg; DC; Dean's approval.**

Graduate-level courses (MBA courses open only to graduate students) offered by the Department of Marketing and Management are listed in the Graduate School issue of the *Creighton University Bulletin* under the heading Business Administration (MBA).

## MATHEMATICS

*For the Mathematics Program of Study, please refer to page 159.*

- MTH 103 Intermediate Algebra (3) I, II, S**  
Topics from second-year algebra to form an introduction to college algebra.
- MTH 125 Practical Math (3)**  
To present common situations requiring quantitative analysis or calculations, to prepare the student to think logically through these situations, to model them mathematically, and to reach an accurate conclusion. Two years of high school algebra is expected. This course is repeatable to a max of 9 credits.
- MTH 131 Earth Algebra (3) I, OD**  
College Algebra material; environmental issues; functions; atmospheric carbon dioxide concentration; composite functions and inverses; global temperature and ocean level; quadratic functions; systems of linear equations and matrices; carbon dioxide emission. **P: Four semesters of high school algebra.**
- MTH 135 College Algebra (3) I, II, S**  
Topics covered include linear and quadratic functions and inequalities, systems of linear equations and inequalities, exponential and logarithmic functions, polynomials and rational functions, and equations of second degree and their graphs. **P: Four semesters of high school algebra.**
- MTH 137 Trigonometry (3) I, II**  
Course covers both analytic and right triangle trigonometry. Topics covered include circular functions, trigonometric functions, rotations and angles, trigonometric identities and equations, inverse functions, triangles, vectors, and applications.
- MTH 141 Applied Calculus (3) I, II, S**  
Main topic is differential and integral calculus and applications. Includes sections on partial derivatives. Course designed primarily for students in the College of Business Administration but also open to students in other colleges who have sophomore standing.
- MTH 201 Applied Mathematics (3) I, II, S**  
Foundations of quantitative reasoning, applications of systems of equations, optimization techniques, probability, and statistics.
- MTH 245 Calculus I (4) I, II, S**  
Differential and integral calculus of algebraic and transcendental functions.
- MTH 246 Calculus II (4) I, II, S**  
Techniques of integration, infinite series, and other topics. **P: MTH 245.**
- MTH 310 Fundamentals of Mathematics (3)**  
A systematic study of the basic concepts in mathematics, including set theory, logic, proof tech-

niques, basic properties of integers, relations, functions, congruences, introduction to groups, sequences and series, and basic properties of a topological space. **P or CO: MTH 245.**

- MTH 347 Calculus III** (3) I, II  
This course covers vector algebra and calculus in two- and three-dimensional space. **P: MTH 246.**
- MTH 363 Elementary Probability and Statistics** (3) OD  
Non-calculus approach with emphasis on measures of central tendency and variability, distributions and testing of hypotheses. Designed for students in natural and social sciences, or business.
- MTH 431 Mathematical History, Philosophy, and Ethics** (3) OD (Same as HIS 431, SRP 431).  
An examination of mathematics and mathematical ideas and their relation to philosophical and ethical views from the ancient Babylonians and Pythagoreans to the present. Special attention will be given to non-Western mathematics, ethnomathematics, twentieth-century game theory, encryption, and ethical issues facing the mathematician and society in the past and today. The course assumes no mathematical background beyond the Core E requirements. **P: Sr. stdg; PHL 250 or THL 250.**
- MTH 471 Fuzzy Logic** (3)  
Overview of classical logic; multivalued logics; fuzzy propositions; linguistic hedges; inference from conditional propositions; inference from conditional and qualified propositions; inference from quantified propositions; evidence theory; rough set theory; applications to law. **P: MTH 201 or 245.**
- MTH 493 Directed Independent Readings** (1-3) I, II  
May be repeated to a limit of six hours. **P: DC.**
- MTH 495 Directed Independent Study** (1-3) I, II  
May be repeated to a limit of six hours. **P: DC.**
- MTH 497 Directed Independent Research** (1-3) I, II  
May be repeated to a limit of six hours. **P: DC.**
- MTH 513 Probability and Statistics in the Health Sciences** (3) I (Same as STA 513)  
This course covers topics in probability and statistics considered useful to those students planning on a career in the health sciences. The topics covered include probability principles and distributions in health sciences, types of epidemiologic study designs, estimation of medical parameters in defined patient populations, test of hypothesis, measures and analysis of treatment of the sick, analysis of variance, methods of medical outcome prediction, and prospective, retrospective and cross-sectional studies of disease occurrence. **P: MTH 201 or MTH 245.**
- MTH 521 Euclidean and Non-Euclidean Geometry** (3) II  
Basic geometric concepts and applications. **P: MTH 246.**
- MTH 525 Automata, Computability, and Formal Languages** (3) OD  
Finite state concepts; acceptors; formal grammars; computability; Turing machines. **P: MTH 246.**
- MTH 529 Linear Algebra** (3) II  
Vector spaces and subspaces; linear transformations; matrices; eigenvalues and eigenvectors. **P: MTH 246.**
- MTH 543 Numerical Analysis** (3) OD  
Numerical differentiation and integration; solutions of equations and systems of equations; polynomial approximation; error analysis and eigenvectors; applications to digital computers. **P: MTH 246.**
- MTH 545 Differential Equations** (3) I, S  
This course examines qualitative, analytic, and numerical techniques for studying differential equations. Course begins with single differential equations, then covers systems of equations,  $n$ -th order linear differential equations, forcing, nonlinear differential equations, difference equations, and Laplace transforms. **P: MTH 246.**
- MTH 547 Mathematics in Medicine and the Life Sciences** (3) II  
This course is intended to be an overview of a variety of mathematical topics considered

useful to those students intending to pursue a career in medicine or the life sciences. The topics covered include mathematics of populations, growth of bacterial cultures, inheritance, bacterial genetics, plasmids, theory of epidemics, biography, the growth of bacteria on plates, heart and circulation, gas exchange in the lungs, electrical properties of cell membranes, and muscle mechanics. **P: MTH 246.**

- MTH 551 Differential Geometry** (3) OD  
Calculus of curves surfaces and manifolds; topics will include hyperbolic geometry, vectors and tensors, fundamental forms, curvature, covariant derivatives, with applications to special and general relativity. **P: MTH 347.**
- MTH 559 Topology** (3) OD  
Set theory; metric spaces; topological spaces; connectedness; compactness. **P: MTH 246.**
- MTH 561 Mathematical Statistics I** (3) I, S (Same as STA 561)  
Introduction to probability and probability distributions including techniques for finding expected values and variance of discrete and continuous variables. These distributions and their properties are examined to establish their application to applied statistical methods. **P: MTH 246.**
- MTH 562 Mathematical Statistics II** (3) II (Same as STA 562)  
Using probability distributions as a foundation and random sampling, methods for estimating distribution parameters are developed with applications to hypothesis testing. The course also includes an introduction to linear models, regression analysis, analysis of variance and design of experiments. **P: MTH 561.**
- MTH 563 Mathematical Statistics III** (3) OD (Same as STA 563)  
Optimal decision procedures, further normal distribution theory, noncentral chi-square and F distributions, introduction to the theoretical basis for analysis of variance, nonparametric methods. **P: MTH 562.**
- MTH 567 Fuzzy Mathematics in Computer Science** (3) I  
Fuzzy Set Theory; fuzzy automata theory; fuzzy languages; applications to learning systems; pattern recognition; fault tolerance. **P: MTH 246.**
- MTH 571 Linear Programming** (3) OD (Same as STA 571)  
Introductory course in operations research. Linear models and solutions using the simplex method, duality theory and sensitivity analysis. **P: MTH 529.**
- MTH 573 Probabilistic Models** (3) OD  
Queuing theory, inventory theory, Markov processes, simulation and nonlinear programming. **P: MTH 561.**
- MTH 575 Introductory Stochastic Process** (3) OD  
Random walk, normal processes and covariance stationary processes, counting processes and Poisson processes, renewal counting processes, discrete and continuous parameter Markov chains. **P: MTH 561.**
- MTH 581 Modern Algebra I** (3) I  
Groups; rings; fields; applications to coding theory. **P: MTH 246.**
- MTH 582 Modern Algebra II** (3) II  
Rings; ideals; field extensions; Galois theory; applications to coding theory. **P: MTH 581.**
- MTH 583 Fuzzy Mathematics: Applications in Health Sciences** (3) II  
Crisp sets; fuzzy sets; classical logic; fuzzy logic; fuzzy complement; fuzzy union; fuzzy intersection; crisp and fuzzy relations; similarity relations; compatibility relations; orderings; morphisms; fuzzy relational equations applications to the health sciences. **P: MTH 201 or MTH 245.**
- MTH 591 Analysis I** (3) II  
Properties of Euclidean spaces and their applications to functions. **P: MTH 246 and 310.**

**MTH 592 Analysis II** (3) OD  
Continuation of MTH 591; functions in metric spaces. **P: MTH 591.**

**MTH 593 Complex Analysis** (3) OD  
Complex arithmetic, polar representations, functions of a complex variable, analyticity and the Cauchy-Riemann equations, complex integration, Cauchy Integral Formula, series, poles and residues, applications to real integration, conformal mappings. **P: MTH 347.**

**MTH 599 Seminar** (1-3) OD  
Topics in advanced mathematics selected by the instructor. **P: IC.**

## ***MEDICAL MICROBIOLOGY AND IMMUNOLOGY***

Offered by the Department of Medical Microbiology and Immunology of the School of Medicine.

**MIC 141 Microbiology** (4) I  
Introductory course, consisting of lectures, study groups, and computerized self-instruction, designed to provide nursing students with a basic knowledge of medical microbiology and immunology. **P: None.**

**MIC 541 Microbiology and Immunology** (4) I  
Introductory course focusing on foundations of general bacteriology and virology, antibacterial therapy and mechanisms of antibacterial resistance, infectious diseases caused by bacteria, viruses, fungi, and parasites, and the host defenses against these microorganisms. **R, L. P: Second year Pharm.D. student or degree seeking graduate student. Upper level undergraduate or other students require approval from course director.**

**MIC 543 Essentials of Immunology** (3) II  
Lecture course covering the major areas of contemporary immunology including host resistance to infection, the chemistry of antigens and physiology of the immune system, immunogenetics and transplantation immunology, immunological techniques, tumor immunology, and immunopathology. **P: MIC 541, or IC.**

## ***MILITARY SCIENCE***

*For the Military Science Program of Study, please refer to page 160.*

**MIL 100 Leadership Laboratory** (0) I, II  
Leadership Laboratory provides initial and advanced military leadership instruction in military courtesy, first aid, and practical field training exercises. Functions and responsibilities of leadership positions are developed through cadet command and staff positions. Required with enrollment in MIL 101, MIL 102, and MIL 103. May be repeated one time.

**MIL 101 Introduction to Officer Professionalism I** (1) I, II  
Examination of the role of the commissioned officer in the United States Army. Discussion focuses upon officer career opportunities, role of the officer, responsibilities of and basis for the armed forces, and sources of officer commissioning.

**MIL 102 Introduction to Officer Professionalism II** (1) II  
Continuation of MIL 101. Further examines the role of the commissioned officer in the U.S. Army. Focuses on customs of the service; role of the Army, Army Reserve, and Army National Guard; organization of the Army; branches of the Army; and leadership principles for the junior officer.

**MIL 103 Foundation of Officership and Basic Leadership** (2)  
This course is an introduction for nursing students to issues and competencies that are central to a commissioned officer's responsibilities. These initial lessons establish a framework for understanding officership, leadership, and Army values. Additionally, the semester addresses "life skills" including fitness and time management. This course is designed to give accurate insight into the Army Profession and the officer's role within the Army. **P: Nursing students only.**

**MIL 200 Leadership Laboratory II** (0) I, II  
This second-year leadership laboratory parallels MIL 211/212 classroom instruction, rein-

forcing concepts learned in class with practical hands-on training exercises and activities. Training is focused on more advanced individual and collective small unit skills such as small unit leadership and tactics doctrine, land navigation, basic rifle marksmanship, and drill and ceremonies. Required with enrollment in MIL 211, MIL 212, and MIL 213. May be repeated one time.

- MIL 202 United States Military History (3) I, II, S**  
A study of the theory and practice of war beginning in colonial times through the military engagements and peace keeping operations of the 1990's. Emphasis is on United States participation in these military operations.
- MIL 205 ROTC Leadership Training Camp (3) S**  
Six weeks of preparatory training at Fort Knox, Kentucky. Travel pay and salary stipend provided through the Military Science Department. The student is not obligated to any military service as a result of attending Leadership Training Camp. Camp graduates are eligible to enroll in Advanced Military Science courses. Students are also eligible to compete for full-tuition two-year scholarships. **P: DC.**
- MIL 207 Fundamentals of Army Ranger Training (2) I**  
Course designed to challenge the individual in leadership, physical endurance, special operations and small-unit tactics. Competitive area success would lead to regional championship participation at Fort Lewis, Washington.
- MIL 208 Advanced Army Ranger Training (2) II**  
Continuation of MIL 207.
- MIL 211 Basic Individual Leadership Techniques (1) I**  
Course designed to develop student leadership and critical individual skills. Training is basic in nature and includes leadership techniques, written and oral communication, rifle marksmanship, fundamentals of land navigation, and physical fitness. **P: MIL 101, 102 or DC.**
- MIL 212 Advanced Individual Leadership Techniques (1) II**  
Continues the development of student leadership and critical individual military skills. Training focuses on advanced military skills and includes orienteering, field survival skills, operation and training. **P: MIL 211.**
- MIL 213 Military Science and Leadership (2)**  
Nurse cadet only. This course compresses Military Science II year into one semester. It is designed to develop students' knowledge of self, self-confidence, and individual leadership skills. Through experiential learning activities, students develop problem solving and critical thinking skills, and apply communication, feedback and conflict resolution skills. **P: MIL 103.**
- MIL 300 Leadership Laboratory III (0) I, II**  
This laboratory parallels MIL 301/302 classroom instruction and places the student in leadership positions within the cadet corps, providing greater challenges in order to build confidence and enhance mastery of individual skills. Activities focus on honing military skills and mastery of small unit leadership and tactics in preparation for MIL 351, ROTC National Advanced Leadership Camp in Fort Lewis, Washington. Required with enrollment in MIL 301 and MIL 302. May be repeated one time.
- MIL 301 Fundamentals of Small Unit Tactics and Leadership (3) I**  
Course designed to introduce the Advanced Course military science student to the technical skills required to become an effective small unit leader. Includes fundamentals of terrain navigation, oral and written communication skills, basic troop leading procedures, and an introduction to opposing forces capabilities, organization and equipment. Includes field training exercise. **P: MIL 211, 212 or DC.**
- MIL 302 Advanced Small Unit Leadership and Tactics (3) II**  
Course involves the study and application of small unit tactics with emphasis on planning and organizing principles learned in MIL 301. Designed to develop the self-confidence and

leadership abilities as well as the technical competence needed by the Advanced Course student to complete Advanced Camp Training conducted at Ft. Lewis, Washington. Includes field training exercises. **P: MIL 301.**

- MIL 351 Leadership Development Assessment Course (3) S**  
The ROTC cadet attends five weeks of intensive leadership and management training. The training is conducted during the summer months between the junior and senior years at Fort Lewis, Washington. The student's ability to lead his or her unit and to plan and conduct military small unit operations is thoroughly evaluated. Travel pay and salary stipend provided through the Department of Military Science. **P: MIL 301 and MIL 302; IC.**
- MIL 352 ROTC Nurse Summer Training (3)**  
A three-week, 120-hour clinical assignment with an Army Nurse Corps preceptor at an Army hospital in the U.S. or overseas. Available to ROTC nursing students with at least one clinical nursing course, follows successful completion of MIL 351. The student receives travel pay and a salary stipend through the Military Science Department. Improved clinical skills and self-confidence that comes with experience will enhance performance in nursing curriculum and Military Science. **P: MIL 301 and 302, Director Consent.**
- MIL 400 Leadership Laboratory IV (1) I, II**  
Laboratory designed to allow senior cadets to demonstrate mastery of leadership and tactical skills developed throughout their cadet career in preparation for becoming commissioned Army officers. The cadet battalion staff plans, resources, and executes training for the MIL 100, 200 and 300 labs. Additionally charged with the leadership development and assessment of the underclassman, with focus on the junior class in preparation for Leadership Development Assessment Course at Fort Lewis, Washington in the summer. Required with enrollment in MIL 401 and MIL 402. May be repeated one time.
- MIL 401 Military Professionalism and Ethics (2) I**  
Seminar on contemporary problems facing junior officers dealing with ethics and military professionalism. Standards of conduct are explained and applied to practical simulations utilizing the ethical decision-making process. **P: MIL 301 and 302 or DC.**
- MIL 402 Military Management Seminar (2) II**  
Leadership and management problems involved in the operation of a small unit including personal affairs, military justice, moral and social duties and obligations of a military officer. **P: MIL 401.**
- MIL 493 Directed Independent Readings (1-3) I, II**  
A course consisting of research and presentation. The goal of the class is to research relevant military tactics and leadership topics and present that subject to the instructor in an effort to prepare the cadet to serve in the U.S. Army as a 2nd Lieutenant. **P: DC.**
- MIL 494 Directed Independent Study and Seminar I (1-3) I**  
A course consisting of research and presentation. The goal of the class is to research relevant military tactics and leadership topics and present that subject to the instructor in an effort to prepare the cadet to serve in the U.S. Army as a 2nd Lieutenant. **P: DC.**
- MIL 495 Directed Independent Study and Seminar II (1-3) II**  
Military Science 495 is a one to three credit hour course consisting of research and presentation. The goal of the class is to research relevant military tactics and leadership topics and present that subject to the instructor in an effort to prepare the cadet to serve in the U.S. Army as a 2nd Lieutenant. **P: DC.**

## *MUSIC*

*For the Music Program of Study, please refer to page 145.*

- MUS 104 Elementary School Music (3) I**  
Principles of theory, history and appreciation of music essential to a basic understanding of elementary-school music practices and procedures for classroom teachers. **P: EDU DC.**

- MUS 135 Beginning Class Piano (1) I, II**  
Beginning piano lessons in a group setting. The piano lab is equipped with four electronic pianos with full sized keyboards No prerequisite is necessary. There is a special fee of \$120 for this class.
- MUS 136 Beginning Class Guitar (1) I, II**  
Beginning lessons on guitar in a small group setting. No prerequisites. Weekly 1 hour lessons. Special fee is charged. Student must have own guitar. There is a special fee of \$120 for this class.
- MUS 145 Beginning Class Piano II (3) OD**  
Continuation of MUS 135. Weekly 1 hour lessons. Special fee is charged.
- MUS 204 Comprehensive Musicianship: Baroque (3) I**  
An integrated approach to the development of musical skills and knowledge through both theory and history. Foundation for study provided by music of the 17th and 18th centuries.
- MUS 206 Comprehensive Musicianship: Classical (3) II**  
An integrated approach to the development of musical skills and knowledge through both theory and history. Foundation for study provided by music of the 18th and early 19th centuries. **P: MUS 204.**
- MUS 208 Jazz Ensemble I (1) I, II**  
An ensemble dedicated to study and performance in the jazz idiom. Auditions with director by appointment. May be repeated to a limit of three hours for credit.
- MUS 209 Gospel Choir I (1) I, II**  
An exploration into the genre of gospel music, one which is filled with personal testimony and rich traditions. The non-auditioned choir is open to anyone interested in developing their musical skills through this medium. May be repeated to a limit of three hours for credit.
- MUS 212 University Chorus I (1) I, II**  
Major choral performing organization singing public performances of the best of major choral works as well as all types of choral literature. No prerequisite. No audition necessary. May be repeated to a limit of three hours for credit.
- MUS 218 Wind Ensemble I (1) I, II**  
A symphonic wind ensemble, dedicated to study and performance of the finest concert music for winds and percussion. No prerequisite. Audition with director by appointment. May be repeated to a limit of three hours for credit.
- MUS 219 Javanese Gamelan I (1) I, II**  
Exploration of Indonesian music and culture through the genre of Javanese court gamelan: an ensemble primarily comprised of pitched percussion instruments. Exposure to Surinamese gamelan tradition is also included. May be repeated to a limit of three hours for credit. **P: IC.**
- MUS 220 University Orchestra I (1) I, II**  
A string orchestra dedicated to study and performance of the finest concert literature. Audition with director by appointment. Wind and percussion instruments audition as needed. May be repeated to a limit of three hours for credit.
- MUS 221 Ear Training and Sight Singing I (1) II**  
Development of the student's proficiency in fundamental skills of musicianship, including melodic and rhythmic dictation, the singing of melodies at sight, and basic eurhythmic techniques. Provides the music student with the tools to identify, both aurally and cognitively, the basic tonal and rhythmic elements of music. **P: IC.**
- MUS 222 Ear Training and Sight Singing II (1) I**  
Second course in the three semester sequence. **P: MUS 221.**
- MUS 235 Applied Music I (1) I, II**  
Individual lessons in strings (violin, viola, cello, string bass), winds (flute/piccolo, oboe, clarinet, bassoon, saxophone, horn, trumpet, trombone, euphonium, tuba), percussion, guitar, harp, piano, pipe organ and voice. May be repeated to a limit of four hours. No prerequisite. Special fee is charged. Juried examination at the end of each semester.

- MUS 271 Voice Class (3) I, II, S (Same as THR 271)**  
The techniques of singing, including voice placement, tone production, breathing, and English diction. Individual attainment in a class setting will be emphasized. No prerequisite required. May be repeated for credit to a limit of six hours.
- MUS 273 Music Appreciation (3) I, II**  
Designed to give the student a background in the language of music and listening skills for the perception of music. Class attendance at local performances and rehearsals.
- MUS 305 Comprehensive Musicianship: 19th and 20th Centuries (3) I**  
An integrated approach to the development of musical skills and knowledge through both theory and history. Foundation for study provided by music of the 19th and 20th centuries.
- MUS 306 Comprehensive Musicianship: Antiquity, Middle Ages and Renaissance (3) II**  
An integrated approach to the development of musical skills and knowledge through both theory and history. Foundation for study provided by music from antiquity through the Renaissance. **P: MUS 305.**
- MUS 308 Jazz Ensemble II (1) I, II**  
Continuation of MUS 208. May be repeated to a limit of five hours for credit. **P: Three credit hours of MUS 208.**
- MUS 309 Gospel Choir II (1) I, II**  
Continuation of MUS 209. May be repeated to a limit of five hours for credit. **P: Three credit hours of MUS 209.**
- MUS 312 University Chorus II (1) I, II,**  
Continuation of MUS 212. May be repeated to a limit of five (5) hours for credit. **P: Three credit hours of MUS 212.**
- MUS 313 Chamber Choir (1) I, II**  
An ensemble of advanced singers performing works written especially for the smaller choir. Performance of music of all historical periods suitable for this type of choir. By audition only. May be repeated to a limit of eight hours.
- MUS 318 Wind Ensemble II (1) I, II**  
May be repeated to a limit of five semester hours for credit. Continuation of MUS 218. **P: Three credit hours of MUS 218.**
- MUS 319 Javanese Gamelan II (1) I, II**  
Continuation of MUS 219. May be repeated to a limit of five hours for credit. **P: Three credit hours of MUS 219.**
- MUS 320 University Orchestra II (1) I, II**  
Continuation of MUS 220. May be repeated to a limit of five hours for credit. **P: Three credit hours of MUS 220.**
- MUS 321 Ear Training and Sight Singing III (1) II**  
Third course in the three semester sequence. **P: MUS 222.**
- MUS 335 Applied Music II (1) I, II**  
Continuation of MUS 235. Individual lessons in strings (violin, viola, cello, string bass), winds (flute/piccolo, oboe, clarinet, bassoon, saxophone, horn, trumpet, trombone, euphonium, tuba), percussion, guitar, harp, piano, pipe organ and voice. May be repeated to a limit of two hours. **P: Four semesters of MUS 235.**
- MUS 353 Jazz in American Culture (3) OD (Same as AMS 353)**  
Examines the relationship between American society and the development of jazz in the course of the twentieth century and beyond. Special attention will be given to those cultural, economic, and political factors which could influence jazz trends on a regional or national level.
- MUS 375 Music of the World's Peoples (3) I, II**  
This class, designed for majors and non-majors alike, examines the sounds of human culture by way of the following questions: Is music the same throughout the world? What has contributed to making music sound as it does? What do you hear in music? How do you describe what you hear? What connections can you make between music you know and that which you hear for the first time? Included in the semester is a brief introduction to



the field of ethnomusicology and three global case studies. Answers to questions come by way of all senses, from hearing to tasting. Each case study involves a variety of hands-on, activity-based learning sessions. The course's capstone is a fieldwork project, exploring a particular segment of personal music culture.

- MUS 381 Accompanying (3) I**  
Introduction to the principles of keyboard accompanying. Includes, under faculty supervision, accompanying for appropriate departmental ensembles and applied instruction.
- MUS 415 Conducting (3)**  
Basic rudiments, posture, stance, conducting patterns, attacks and releases, musical styles, and rehearsal/score preparation for both instrumental and choral conducting. **P: MUS 221, 222, 321**
- MUS 435 Applied Music III (1) I, II**  
Continuation of MUS 335. Individual lessons in strings (violin, viola, cello, string bass), winds (flute/piccolo, oboe, clarinet, bassoon, saxophone, horn, trumpet, trombone, euphonium, tuba), percussion, guitar, harp, piano, pipe organ and voice. **P: Two semesters of MUS 335.**
- MUS 440 Liturgy, Music, and the Transformed Life (3) OD (Same as SRP 440, THL 440)**  
A study of the historical development of the relationship between the Eucharist and liturgical music. How the liturgy (Eucharist, scripture reading, music, and architecture) intends the transformation of the assembly into a moral, virtuous, and just community. **P: Sr. stdg.**
- MUS 495 Independent Research Project (1-3) I, II**  
Directed research and study in music to meet the individual needs of the student. May be repeated to a limit of six hours. **P: 1C, DC.**
- MUS 498 Senior Recital (1) I, II**  
Preparation and presentation of solo literature in the music major's area of performance concentration. Taken one semester, concurrently with MUS 435. **P: Sr. stdg.; MUS Majors only, 1C. CO: MUS 435.**

## *NATIVE AMERICAN STUDIES*

*For the Native American Studies Program of Study, please refer to page 165.*

- NAS 101 Introduction to Native American Studies: Anthropological Approaches (3) I, II**  
(Same as ANT 101)  
This course introduces students to the fundamental paradigms and methods of social science, particularly anthropology, sociology and history through a study of contemporary and historical Native American Studies. Through a series of lectures, discussions and field trips to local sites, students will become familiar with the variety of historical and contemporary Native societies and the manner in which social scientists have and continue to dialogue with Native peoples in the present.
- NAS 108 The Native American World (3) I, II (Same as ANT 108, HIS 108)**  
This course is a survey of the development of Native American societies and cultures from their appearance on the continent to the present emphasizing the evolution of cultural, political, and social systems and the imprint of contact with Euro-American cultures. **P: HIS 101.**
- NAS 209 Qualitative Methods in the Social Sciences (3) II, S (Same as ANT 209, SOC 209)**  
Introduction to qualitative research methods within the social sciences. Includes research design, strategies for collecting ethnographic data with a particular focus on participant observation and field work, comparative research, theory building, and ethical issues involved with human research.
- NAS 319 Art International: The Art Culture of the Global Community (3) I, II (Same as ART 319)**  
A general survey of non-western art. The course will introduce African, Asian, and Native American art forms from ancient to contemporary. The painting, sculpture and architecture of each culture are selected to demonstrate the key values and concerns of those cultures. Two lectures will present Islamic and Oceanic art.
- NAS 321 American Indian Tribal Government and Politics (3) (Same as PLS 321)**  
This course will provide students with an overview of the development of modern tribal governments, their powers, and the problems they face. Students will examine contemporary

tribal governments and the issues currently facing tribes including economic development and intergovernmental relations. **P: So. stdg.**

- NAS 324 Native American World View, Culture and Values** (3) II, ONY (Same as ANT 324, PHL 324)  
This course takes a multidisciplinary approach to formulating the varieties of worldviews among Native groups with an emphasis on commonalities and uniqueness among different groups during different historical eras. The course begins by critically looking at reconstructions of Native worldviews in the pre European contact era as constructed by later Natives, anthropologists and ethno historians based on a variety of sources. The course focus on the many media through which Native cosmologies are expressed as well as the historical circumstances that have continued to transform Native cosmologies. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- NAS 325 Digital Video Photography** (3) I (Same as ART 325, JMC 325)  
Students learn how to use a video camera to shoot and produce a narrative documentary using computer editing programs. Students produce their own five-minute documentary.
- NAS 330 Museums and Social Science** (3) II (Same as ANT 330, HIS 330)  
This course examines the interrelationship of how social scientists have theoretically understood society and culture and how they have structured and utilized museums. Students will study the history of both anthropological theory and museums as well as ethical and aesthetic issues and demonstrate their knowledge by creating an ethically responsible public virtual museum on the World Wide Web for a final project. **P: So. stdg.**
- NAS 331 Indians of the Great Plains** (3) II, ONY (Same as ANT 331)  
This course provides a comprehensive interdisciplinary approach to the study of Native cultures on the Great Plains. We will examine ecology, geography, geology, natural resources, archaeology, history, art, linguistics, cultures, as well as the human habitation of the area from first records (which are both archaeological and oral historical) to the present. The course will be run seminar style. Each student (or group depending on the size of the class) will choose a specific cultural group for study. If a student is a member of a plains Indian group the student is required to study a linguistically and culturally different group. The professor will act as a resource for methodology and research strategies. Each student will bring to the seminar a summary of relevant data for the group she/he is studying and present it to the class. Students will also build a portfolio of short papers on each seminar topic that will be assembled into a major paper at the end of the semester. **P: So. Stdg.**
- NAS 335 Federal Indian Policy and Law** (3) II (Same as AMS 335, PLS 335, SWK 335)  
Investigates the relationships between Native American and Euro-Americans in terms of how the Natives were perceived and the impact this has had on Colonial and Federal policies relating to Native populations. Emphasis is on the historical, political and cultural aspects of the relationship. **P: So. stdg.**
- NAS 340 Native American Culture and Health** (3) I (Same as ANT 340)  
This course allows students to learn first hand about the culture and health care practices of Native Americans by participating in seminars offered by Native tribal and spiritual leaders, healers, and others who work with Native populations in promoting wellness and pride in culture. Students will participate in the course with other SPAHP students enrolled in the elective course "Learning through Reflective Service: Native American Experience." Satisfactory completion of the course requires that the student attend all class sessions unless excused by instructors. Only one excused absence is permitted before a grade of UN is issued. Active participation in discussion with guest speakers and fellow students is expected.
- NAS 343 Peoples and Cultures of Native North America** (3) I, ENY (Same as ANT 343)  
Historic and ethnographic survey of the Native cultures of North America. Includes an analysis of the ecological, social, and ideological adaptations and cultural changes brought by contact with Euro-American populations. **P: So. stdg.**
- NAS 346 Peoples and Cultures of Latin America** (3) I (Same as ANT 346)  
A study of the cultures of Latin America. Includes an analysis of the culture history, ecological adaptations, social adaptations, and ideological adaptations, and explores the nature of culture change in these Spanish and Portuguese speaking regions of the Americas. **P: So. stdg.**
- NAS 358 Critical Issues in the Study of Native American Religions** (3) II, ONY (Same as ANT

358, THL 358)

This course utilizes anthropological perspectives in the study of Native American religion. The focus of the course is non-Western, non-proselytizing religions which are coterminous with local political or kinship based social groups. The course looks at the history of the study of Native religions, the nature of Native religions as understood by a variety of disciplines, and the contemporary critique of colonialism by Native peoples specifically in regard to intellectual colonialism of Native knowledge and the practical colonialism inherent in the imitation of Native religions by non-tribal members.

- NAS 365 Issues of the Native American Experience** (3) I (Same as AMS 365, SWK 365)  
Examination of Native American culture and values, social institutions and social systems. Presentation of issues emanating from being Native American. Consideration is given to understanding the Native American experience from an historical perspective as well as the contemporary viewpoint. **P: So. stdg.**
- NAS 375 Photojournalism I** (3) I, II (Same as ART 375, JMC 375)  
The course introduces photography as a means of reporting the news, including the use of film and/or digital cameras to prepare photographs for print or Web publication.
- NAS 378 Photojournalism II: Picture Editing** (3) (Same as ART 378, JMC 378)  
The course examines the principles of design for newspapers and magazines with an emphasis on using photographs in the design. **P: NAS 375.**
- NAS 386 The History and Aesthetics of Latin American Photography** (3) (Same as ART 386)  
Examination of the history and aesthetics of photography as a medium of visual expression in the culture of Latin America. Study of the evolution of contemporary Latin American photography from its 19th century “colonial” roots through periods of 20th century revolution and independence to the contemporary post-modern idiom of Latin American image-making. Emphasis on the study of photographic themes that are specific to the Latin American cultural experience: colonialism, revolution and independence, native and tribal society, religion and cult, economic oppression and poverty, politics and self-determination, geography and natural resources, language and architecture.
- NAS 387 Modern Hispanic Art History** (3) (Same as AMS 387, ART 387)  
Modern Hispanic Art History will survey the painting, sculpture and architecture of Latin America along with some of its Spanish influences, from 1820 to the present. Native American and African influences on Latin American art will be surveyed. Key figures to be studied are: Rivera, Torres-Garcia, Lam, Matta, Kahlo, Varo, Chambi, Salgado, Barragan, Botero, Bravo, Jimenez, etc.
- NAS 468 Native American Art** (3) I (Same as AMS 468, ART 468)  
Survey of Native American art from the 16<sup>th</sup> century to the present with a concentration on the art of the continental United States. Includes Northwest, Southwest, and Plains cultures.
- NAS 469 Ethnohistorical Approaches to Native American Cultures** (3) II, ONY (Same as AMS 469, ANT 469, HIS 469)  
This course’s approach is ethnohistorical, combining the disciplines of history and anthropology to obtain multiple perspectives on the historical interactions between native and non-Native peoples. We will research historical and cultural topics concerning both Native and Euro-American groups from the time of European incursion into North America to the present. The result of this course will be a final research paper on some theme in the history and culture of Native peoples. **P: So. stdg.**

- NAS 493 Directed Independent Reading (1-6) I, II, S**  
This course provides for a survey of the literature related to a topic in Native American studies not covered in the student's coursework. It is undertaken in close cooperation with a supervising faculty member. This course may be repeated to a limit of six hours. **P: IC.**
- NAS 495 Directed Independent Study (1-6) I, II, S**  
This course provides for a student-initiated project on a focused topic in Native American studies, utilizing library materials and/or field research and involving close cooperation with a supervising faculty member. The course may be repeated to a limit of six hours. **P: IC.**
- NAS 497 Directed Independent Research (1-6) I, II, S**  
Student-initiated empirical project on a focused topic in Native American Studies, involving close coordination with a supervising faculty member. May be repeated to a limit of six hours. **P: IC.**

## ***NURSING***

Professors: Lappe, Norris. Professors Emerita: Ciciulla, Pinch, Vossen;  
Associate Professors: Furlong, Howell (Dean), Kunes-Connell, Lazure, Miers, Shirley, Sommer;  
Assistant Professors: Abbott, Andrews, Aufdenkamp, Boardman, Costanzo, Fahrenholtz, Foyt,  
Graves, Harms, Hercinger, Howard, Jacobsen, Kostka, Laguzza, Laughlin, Meagher,  
Miller, Nilsson, Nolette, O'Keefe, Parks, Parsons, Price, Rusch, Schilke, Schoening,  
Spelic, Synowiecki, Tinley, White, Whittaker, Wilken, Woods, Wydeven, Yager;  
Instructors: Benda, Bredenkamp, Clinkenbeard, Cosimano, Tow.

### ***TRADITIONAL PROGRAM—PREREQUISITES AND COREQUISITES***

BMS 111, CHM 111, CHM 112/113, BMS 303, PSY 111, and SOC 101 or ANT 111 or SOC 223 are prerequisite to admission to the sophomore level. The support course MIC 141 is prerequisite to junior level courses.

A practicum course is taken in conjunction with the companion theory course (e.g. NUR 352 is corequisite for NUR 351). Unsatisfactory performance in any practicum course or its companion theory course prohibits advancement into the next level of practicum courses.

- NUR 116 Opportunities in Professional Nursing (1) II**  
NUR 116 explores the nursing profession and the career opportunities a major in nursing provides. The course incorporates information related to the evolution of nursing, current, and future nursing roles and specialties, and advanced practice areas. Students will participate in guided experiences in nursing environments. Graded Satisfactory/Unsatisfactory.
- NUR 223 Nutrition (2) I**  
NUR 223 provides an overview of the principles and science of nutrition from a personal, consumer, prevention and medical nutrition therapy standpoint. **P: So stdg.**
- NUR 224 Health Assessment Across the Lifespan (2) I**  
NUR 224 focuses on application of knowledge gained in previous courses to the physical, psychosocial and functional assessment of persons at various stages of lifespan development. Emphasizes the nurse's role in identifying and describing normal assessment findings using a cephalocaudal approach. **P: BMS 111, BMS 303. CO: NUR 225.**
- NUR 225 Health Assessment Practicum (1) I**  
NUR 225 provides opportunities for students to apply knowledge gained in previous courses to the process of physical, psychosocial and functional assessment of persons at various stages of lifespan development. A hands-on approach is used to enable students to acquire the knowledge and skills necessary to perform a comprehensive health assessment and to describe normal findings. Graded Satisfactory/Unsatisfactory. **CO: NUR 224.**
- NUR 228 Lifespan Development (3) I**  
NUR 228 is a broad overview of normal human development from the prenatal stage through older adulthood. Emphasis will be placed on understanding the individual in the context of the psychological, social, behavioral, cultural and spiritual environment. **P: PSY 111 and SOC 101 or ANT 111 or SOC 223.**
- NUR 252 Human Pathophysiology (3) II**  
NUR 252 provides an overview of pathophysiological concepts across the lifespan. The course will address basic principles, processes, and concepts associated with common

pathologies as well as the pathophysiological alterations related to body systems. **P:** BMS 111, BMS 303, CHM 111, MIC 141. **CO:** 253. **CO or P:** NUR 224, NUR 225, CHM 112/113.

- NUR 253 Human Pathophysiology Lab (1) II**  
NUR 253 provides the opportunity for application of pathophysiological concepts to individuals across the lifespan. Settings may vary to provide this experience. Graded Satisfactory/Unsatisfactory. **CO:** NUR 252.
- NUR 341 Nursing Management of Pharmacotherapy (3) I**  
NUR 341 provides students with a sound basis for clinical application of pharmacology. It addresses pharmacodynamic and pharmacokinetic properties, therapeutic uses, adverse effects and nursing implications for selected drug classifications used in various health care settings. **P:** Jr. stdg. or IC.
- NUR 351 Care Management Concepts for Health Promotion, Protection, Maintenance, and Restoration (5) I**  
NUR 351 is an introduction to the care management process and outcomes-based care in promoting, protecting, restoring and maintaining health. Content includes transcultural concepts across the lifespan and with diverse populations. **P:** Jr. stdg.; NUR 223, 224, 225, 228, 252, 253.; **CO:** NUR 352, 377. **CO or P:** NUR 341, 361, 362.
- NUR 352 Care Management Practicum I (4) II**  
NUR 352 provides practicum opportunities for students to apply concepts of care management in the health promotion, protection, restoration and maintenance for diverse populations across the lifespan. Proficiency with fundamental care management skills and technologies is acquired. Learning experiences will take place in a variety of acute and community based settings. Graded Satisfactory/Unsatisfactory. **CO:** NUR 351.
- NUR 353 Principles of Population-Based Health Care (3) II**  
NUR 353 is designed to provide students with theoretical perspectives, skills and knowledge associated with the primary functions of public health. Students will use basic principles of epidemiology and the demographic measurement of populations and groups to examine the distributive factors of health and disease needs in populations. Students will acquire tools for assessing a group or population, and planning, implementing, and evaluating health promotion and protection interventions in collaboration with community representatives and other health care providers. **P:** NUR 361, 362, 351, 352, 377.
- NUR 354 Power, Politics, and Policy in Health Care (2) II**  
NUR 354 focuses on the understanding of the interplay and synthesis of power, politics, and policy in health care. It emphasizes the importance of nursing participation in the many spheres of political influence, including the workplace, government, professional organizations, and the community. **P:** Jr. stdg or IC.
- NUR 361 Informatics in Health Care (2) I**  
NUR 361 introduces the student to the use of computer-based information management in health care. Emphasis is on applications that provide resources for clinical practice, education, communication, and research. **P:** Jr. stdg or IC; **CO:** NUR 362.

- NUR 362 Informatics in Health Care Practicum (1) I**  
 NUR 362 provides practice in using a variety of computer applications in education, communication, research and clinical practice. Graded Satisfactory/Unsatisfactory. **CO: NUR 361. P: Jr. stdg.**
- NUR 371 Care Management Processes for Episodic and Chronic Health Alterations I (5) II**  
 NUR 371 focuses on the care management of diverse populations experiencing health alterations or diseases which may include those that are highly prevalent; have a significant effect on morbidity and quality of life; are highly preventable and/or create a financial burden for the individual, the health care system, and society. Emphasis is placed on using the disease management model to understand the common trajectory of selected diseases and the major cost drivers of selected diseases. **P: NUR 341, 351, 352, 361, 362 Jr. stdg; CO: NUR 372. CO or P: NUR 353, NUR 354.**
- NUR 372 Care Management Practicum II (5) II**  
 NUR 372 provides practicum experiences in care management in a variety of settings for clients with selected episodic and chronic alterations in health states. It applies concepts learned in NUR 371. Emphasis is placed on an interprofessional collaborative approach to disease management in order to achieve optimal outcomes. Graded Satisfactory/Unsatisfactory. **CO: NUR 371.**
- NUR 377 Research for Health Professionals (3) I**  
 NUR 377 addresses the development of beginning level skills in research utilization and critiquing for purposes of quality and quality improvement. Students are introduced to ways of knowing and critical thinking as frameworks for understanding and contributing to evidence-based practice in nursing. **P: Jr. stdg. P or CO: NUR 361, 362. CO: NUR 351, 352.**
- NUR 471 Care Management Processes for Episodic and Chronic Health Alterations II (5) I**  
 NUR 471 focuses on the care management of clients with multiple, complex problems associated with selected diseases of high risk, high prevalence, and high cost. Multiple needs of clients at various levels of illness acuity and chronicity are examined. **P: Sr. stdg. CO: NUR 472, P: NUR: 353, 354, 371, 372.**
- NUR 472 Care Management Practicum III (5) I**  
 NUR 472 incorporates practicum experiences in a variety of setting with clients experiencing multiple, complex problems associated with episodic and chronic illnesses. Emphasis is place on development of the nurse as a leader of the interdisciplinary care management team. Graded Satisfactory/Unsatisfactory. **P: Sr. stdg. CO: NUR 471.**
- NUR 473 Leadership for Care Management (2) I**  
 NUR 473 focuses on the investigation, analysis and application of principles and practices of leadership and management in health care delivery systems. It emphasizes concepts foundational to resource allocation and utilization in managing the delivery of care, and integrates these concepts in the context of leadership roles in care management, clinical outcome improvement, and interprofessional collaboration. **P: Sr. stdg. or IC.**
- NUR 474 Applied Nursing Ethics (3) I**  
 NUR 474 identifies ethical issues in health care and distinguishes carefully among salient features of these problems' moral, social, legal, and political dimensions. Emphasis is placed on development of skill in conceptual analysis, critical thinking, moral reasoning, argumentation, and developing an ability to consider and articulate objections to a range of views. **P: Sr. stdg. or IC.**
- NUR 481 Senior Seminar in Professional Nursing (2) II**  
 NUR 481 is designed to facilitate transition from student to professional nurse. Students are provided opportunities to explore political, legal, economic, ethical, social, cultural, and technologic influences on trends and issues related to nursing, care management and health care. **P: NUR 471, 472, 473. CO: NUR 482.**
- NUR 482 Senior Preceptorship (10) II**  
 NUR 482 provides students with opportunities to synthesize professional nursing concepts and skills in a selected clinical setting with an emphasis on care management and clinical outcome improvement. This preceptorship emphasizes the ability to develop sound clinical decision-making skills and work effectively with the multidisciplinary team. Emphasis is

also placed on the use of research in total quality improvement and evidence-based practice. Learning is facilitated by an experienced baccalaureate-prepared registered nurse who serves as a preceptor for the student. **P: NUR 471, 472, 473. CO: NUR 481.**

**NUR 495 Directed Independent Study (1-3) I, II**

Supervised study related to specific areas of nursing concern. Learning experiences include directed readings, seminar, presentations, field trips and other activities designed to enhance the students' knowledge and skill base in care management of diverse populations. Select section titles include: Adult Development(A); Management(B); Neonatal Intensive Care(C); Transcultural Nursing(D); Advanced Concepts in Maternal Newborn Nursing(E); Grief, Dying and Death(F); ECG Interpretation (G); Rural Health Nursing(I); Obstetric Experience(J); Alzheimer's Management(K); Care Management/Quality Improvement (L); Cross Cultural Health Care in the Dominican Republic(M); Genetics Across the Lifespan(N).

## ***ACCELERATED CURRICULUM***

**Prerequisites and Corequisites:** Students must have a minimum of a previous baccalaureate degree in another field. The prerequisites for the Accelerated program are: 36 semester hour of general education, 3 semester hours of sociology or cultural anthropology, 3 semester hours of general psychology, 3 semester hours of lifespan development or developmental psychology (lifespan), 3 semester hours of ethics or bioethics, 2 semester hours of nutrition, 7-8 semester hours of chemistry, 4 semester hours of anatomy and 4 semester hours of physiology.

**NUR 252 Pathophysiology (3)**

NUR 252 provides an overview of pathophysiological concepts across the lifespan. The course will address basic concepts, principles, and processes associated with common pathologies. It is designed for the student with limited or no clinical experience. **P: Admission into the accelerated program.**

**NUR 288 Health Assessment (2)**

NUR 288 focuses on application of knowledge gained in previous courses to the physical, psychosocial and functional assessment of persons at various stages of lifespan development. Emphasis is placed on the nurse's role in identifying and describing normal assessment findings using a cephalocaudal approach. **P: Admission into the accelerated program. CO: NUR 289.**

**NUR 289 Health Assessment Practicum (1)**

NUR 289 provides opportunities for students to apply knowledge gained in previous courses to the process of physical, psychosocial and functional assessment of persons at various stages of lifespan development. A hands-on approach is used to enable students to acquire the knowledge and skills necessary to perform a comprehensive health assessment on individuals at various stages of lifespan development and to describe normal findings. **CO: NUR 288.**

**NUR 290 Care Management Concepts for Health Promotion and Outcomes Improvement (5)**

NUR 290 emphasizes health concepts, health changes, and fundamental interventions for health maintenance. The course focuses on health promotion and wellness, chronicity and quality of life, basic human needs, and care management and outcomes improvement for diverse populations. **P: Admission into the accelerated program. CO: NUR 252, 288, 289, 291, 341.**

**NUR 291 Care Management for Health Promotion and Outcomes Improvement Practicum (5)**

NUR 291 provides practicum learning experiences necessary for students to apply concepts and principles of human development, culture, ethnicity and socioeconomic status in their understanding of health promotion for clients across the lifespan. Opportunities for health assessment and goal-directed communication are provided so that students increase their competence in the use of these skills. Proficiency with fundamental technologies/skills is acquired at this level. Graded Satisfactory/Unsatisfactory. **CO: NUR 290.**

**NUR 341 Nursing Management of Pharmacotherapy (3) I**

NUR 341 provides students with a sound basis for clinical application of pharmacology. It addresses pharmacodynamic and pharmacokinetic properties, therapeutic uses, adverse effects and nursing implications for selected drug classifications used in various health care settings. Case studies to incorporate theoretical knowledge with clinical situations are used to stimulate critical thinking. **P: Admission to the ANC Program. P or CO: NUR 288/289, 252; CO: NUR 290, 291.**

- NUR 381 Care Management of Populations (2)**  
 NUR 381 prepares students to practice in community-oriented and population focused nursing, to think, epidemiologically, to perceive clients in the context of their respective populations and communities, and to integrate social justice as an element in client advocacy. The course examines historical trends and current concepts of public health with particular attention to the core functions of assessment, assurance and policy development. Students integrate the concepts of demography, epidemiology, vulnerability and social justice and cultural competence in the care management of populations. **P: NUR 252, 288, 289, 290, 291, 341. CO: NUR 382, 390, 391, 394.**
- NUR 382 Care Management of Populations Practicum (1)**  
 NUR 382 provides opportunities to acquire skills for assessing a group or population and planning, implementing, and evaluating health promotion and protection interventions. Graded Satisfactory/Unsatisfactory. **CO: NUR 381.**
- NUR 386 Research and Evidence-Based Knowledge for Care Management (3)**  
 NUR 386 introduces students to research and research utilization processes as they apply to evidence-based practice. The steps of the research process and research utilization process are applied to clinical problems. Ethical issues related to the research process are discussed. Students critique both qualitative and quantitative research literature. Emphasis is placed on the use of evidence to improve the quality of care. Advances in computer technology and application to education, communication, research and clinical practice are introduced. **P: NUR 252, 288, 289, 290, 291, 341; CO: NUR 390, 391.**
- NUR 390 Care Management and Outcomes Improvement for Altered Health States (6)**  
 NUR 390 introduces the concepts of disease management and outcomes improvement for the major episodic and acute illnesses that occur in diverse populations. The focus is on the care management of those diseases that are highly prevalent; have a significant effect on morbidity, mortality, and quality of life in the general population; are highly preventable; and/or create a financial burden for the individual, the health care system, and society as a whole. **P: NUR 252, 288, 289, 290, 291, 341. CO: NUR 386, 391, 394.**
- NUR 391 Care Management and Outcomes Improvement for Altered Health States Practicum (6)**  
 NUR 391 provides practicum learning opportunities that emphasize outcome improvement and interprofessional collaboration. Learning experiences will take place in a variety of acute care and community-based settings. Graded Satisfactory/Unsatisfactory. **CO: NUR 390.**
- NUR 394 Health Care Management and Leadership (2)**  
 NUR 394 focuses on the investigation, analysis, and application of the principles and practices of leadership and management in health care delivery systems. It emphasizes concepts foundational to resource allocation and utilization in managing the delivery of care and integrates these concepts in the context of leadership and management roles in care management, clinical outcome improvements and interdisciplinary teamwork along the continuum of care. **CO: NUR 390, 391.**
- NUR 493 Dissemination of Research and Evidence Based Knowledge (1)**  
 NUR 493 allows students to synthesize concepts from NUR 386 by developing and disseminating the results of an evidence-based project. **P: NUR 386; CO: NUR 494, 496, 497, 498.**
- NUR 494 Seminar in Professional Nursing (4)**  
 NUR 494 is designed to facilitate transition from the student role to the professional nursing role. The content focuses on the reciprocal relationships among society, health care organizations, and the nursing profession. This course provides opportunities for students to explore trends and issues related to nursing, care management, and health care, and to build skills essential to shaping care environments and health policy. **P: NUR 394. CO: NUR 493, 496, 497, 498.**
- NUR 496 Care Management and Outcomes Improvement for Complex Altered Health States (4)**  
 This course emphasizes the care of clients with complex health problems. Students apply knowledge of systems, dysfunction, pathophysiology, laboratory data, pharmacology, and treatment protocols in the process of providing, analyzing, and evaluating the care given to diverse populations. Emphasis is placed on the promotion, maintenance, and restoration of health and the prevention of complications in clients with complex health problems. **P: NUR 390, 391, CO: NUR 493, 494, 497.**



- NUR 497 Care Management and Outcomes Improvement for Complex Altered Health States (4)**  
 NUR 497 provides students with practicum opportunities to care manage a variety of complex clients in the acute care and community health settings. This practicum experience is structured to foster the refinement of clinical skills, organization in client care activities, the development of sound clinical activities, the development of sound clinical decision-making skills, and the ability to work effectively as a team member. Proficiency with advanced skills is acquired at this level. Graded Satisfactory/Unsatisfactory. **CO: NUR 496.**
- NUR 498 Senior Preceptorship (6)**  
 NUR 498 provides an opportunity for students to manage care for clients in a selected clinical environment under the supervision of a baccalaureate-prepared registered nurse preceptor. This clinical experience is structured to foster the synthesis of professional nursing concepts, the refinement of clinical skills, the organization of client care activities, the development of sound clinical decision-making skills, and the ability to work effectively as a team member. Graded Satisfactory/Unsatisfactory. **P: NUR 496, 497. CO: NUR 493, 494.**

## ***LEAP CURRICULUM***

- NUR 108 RN/CNL Seminar (2) S, I, II**  
 NUR 108 focuses on career development and linking career goals with strategies for achieving career success. **P: Admission to the LEAP Program.**
- NUR 224 Health Assessment (2) S**  
 NUR 224 focuses on application of knowledge gained in previous courses to the physical, psychosocial and functional assessment of persons at various stages of lifespan development. Emphasizes the nurse's role in identifying and describing normal assessment findings using a cephalocaudal approach. **P: BMS 111, BMS 303. CO: NUR 225.**
- NUR 225 Health Assessment Practicum (1) S**  
 NUR 225 provides opportunities for students to apply knowledge gained in previous courses to the process of physical, psychosocial and functional assessment of persons at various stages of lifespan development. A hands-on approach is used to enable students to acquire the knowledge and skills necessary to perform a comprehensive health assessment and to describe normal findings. Graded Satisfactory/Unsatisfactory. **CO: NUR 224.**
- NUR 252 Pathophysiology (3) S**  
 NUR 252 provides an overview of pathophysiological concepts across the lifespan. The course will address basic principles, processes, and concepts associated with common pathologies as well as the pathophysiological alterations related to body systems. **P: BMS 111, BMS 303, MIC 141, CHM 111.**
- NUR 317 Professional Nursing Transition (3) S**  
 NUR 317 is designed to validate prior learning and facilitate socialization into the baccalaureate-nursing role. Focuses on concepts and theoretical formulations basic to care management and outcome improvement in a variety of health care settings. Emphasizes the nurse's role in health promotion, maintenance and restoration throughout the lifespan. **P: NUR 108; P or CO: 224, 225, 252, 322, Ethics course. CO: NUR 318.**
- NUR 318 Professional Practice Lab (1) S**  
 NUR 318 provides opportunities for students to validate clinical knowledge and skills acquired in associate degree or diploma nursing programs and from work experience. Facilitates socialization into the baccalaureate-nursing role. Focuses on concepts and theoretical formulations basic to care management and outcome improvement in a variety of health care settings. Emphasizes the nurse's role in health promotion, maintenance and restoration throughout the lifespan. Graded Satisfactory/Unsatisfactory. **CO: NUR 317.**
- NUR 322 Informatics for Health Professionals (1) S**  
 NUR 322, an introductory course, examines the impact of information and other technologies on health care delivery, health care providers, and health care consumers. Emphasis

is on the use of informatics to improve access to care, access to health records, monitoring of outcomes, and patient safety. Advantages, disadvantages, and regulation of electronic health records will be explored. **P: Admission to the LEAP Program.**

**NUR 330 Clinical Informatics Lab (1) I**

NUR 330 will foster students' development of technical skills needed for development of electronic patient teaching materials and for using clinical data to support decisions in care management. Students will develop skills with web pages, desktop publishing, and spreadsheet applications. Graded Satisfactory/Unsatisfactory. **P: NUR 322, NUR 317, NUR 318; CO: NUR 441, NUR 442.**

**NUR 354 Power, Politics, and Policy in Health Care (3) II**

NUR 354 focuses on the understanding of the interplay and synthesis of power, politics, and policy in health care. It emphasizes the importance of nursing participation in the many spheres of political influence, including the workplace, government, professional organizations, and the community. **P or CO: NUR 108.**

**NUR 358 Clinical Nurse Leader Seminar (2)**

NUR 358 provides students with the tools and strategies to transition successfully into the academic setting. Students are provided opportunities to identify personal and professional goals in context of personal learning needs and styles as well as multiple role demands. This course also introduces baccalaureate roles as well as the Clinical Nurse Leader (CNL) role and its integration into professional practice. The course examines the professional role, responsibilities and accountability of the BSN and CNL. **P: Admission to the CNL Program.**

**NUR 363 Principles of Population-Based Health Care (2) I**

NUR 363 is designed to provide the student with theoretical perspectives in public health, and skills and knowledge associated with the core functions of public health. The current organization of public health as well as future challenges will be examined. It emphasizes basic principles of epidemiology and the demographic measurement of populations and groups in order to examine the distributive factors of health and disease needs in populations. **P or CO: NUR 108. CO: NUR 364.**

**NUR 364 Principles of Population-Based Health Care Practicum (1) I**

NUR 364 is designed to apply theoretical perspectives in public health, and skills and knowledge associated with the core functions of public health. Students will use basic principles of epidemiology and the demographic measurement of populations and groups in order to examine the distributive factors of health and disease needs in populations. Students will analyze the process of assessment, planning, implementation, and evaluation currently being used in a local community agency health promotion/ prevention program. Students will identify how components of the care management process are incorporated into the community/population health planning process. Graded Satisfactory/Unsatisfactory. **CO: NUR 363.**

**NUR 377 Research for Health Professionals (3) I**

NUR 377 addresses the development of beginning level skills in research utilization and critiquing. A variety of research studies taken from the professional and popular literature are examined.

**NUR 441 Nursing Care Management and Outcomes Improvement I (3) I**

NUR 441 focuses on episodic health alternations throughout the lifespan and analysis of nursing's role in care management, clinical outcome improvement, resource utilization and interdisciplinary teamwork along the continuum of care. Emphasizes critical thinking and research as a foundation for clinical decision making. **P: NUR 224, 225, 252, 317, 318, 322. CO: NUR 442. P or CO: NUR 353 or NUR 363, 364; NUR 377, approved courses in Culture, Ideas and Civilization; Sociology; Psychology; and Developmental Psychology.**

**NUR 442 Care Management Lab I (3) I**

NUR 442 provides clinical learning opportunities for students to apply concepts and principles of care management and outcome improvement to clients experiencing episodic health

alterations throughout the lifespan. Emphasizes critical thinking and research as a foundation for clinical decision making. Graded Satisfactory/Unsatisfactory. **CO: NUR 441.**

- NUR 461 Nursing Care Management and Outcomes Improvement II (3) II**  
NUR 461 focuses on health care management of high risk and chronically ill populations across the lifespan. Includes nursing's role in planning, implementing and evaluating therapeutic interventions to achieve optimal health outcomes for these target populations. Emphasizes critical thinking and research as a foundation for clinical decision making. **P: NUR 353 or NUR 363; NUR 364, 377, 441, 442. CO: NUR 462. P or CO: NUR 354, 478, 490.**
- NUR 462 Care Management Lab II (4) II**  
NUR 462 provides clinical learning opportunities for students to apply concepts and principles of care management and outcome improvement to high risk and chronically ill populations across the lifespan. Emphasizes critical thinking and research as a foundation for clinical decision making. Graded Satisfactory/Unsatisfactory. **CO: NUR 461.**
- NUR 478 Leadership for Care Management (2) II**  
NUR 478 focuses on the investigation, analysis and application of the principles and practices of leadership and management in health care delivery systems. It emphasizes concepts foundational to resource allocation and utilization in managing the delivery of care, and integrates these concepts in the context of leadership roles in care management, clinical outcome improvement, and multidisciplinary teamwork. **P or CO: NUR 108.**
- NUR 490 Data Management Lab (1) II**  
NUR 490 addresses application of information technology to analyze and improve care management outcomes. Graded Satisfactory/Unsatisfactory. **P: NUR 322, 330. CO: NUR 461, 462.**
- NUR 511 Leadership, Communication and Education (3) I**  
NUR 511 focuses on theoretical and empirical concepts related to key competencies in leadership, communication, and learning with application in the complex microsystem health care arena. Using a framework of transformational leadership NUR 511 emphasizes concepts focusing on organizational vision, establishing a learning environment, leadership theories/styles, change theory, individual, group, and organizational communications, and conflict, mediation, and negotiation. **P: NUR 317, 318, 358.**
- NUR 512 Care Environment: Systems/Risk Management, Quality Improvement/ Healthcare Finance (3) I**  
NUR 512 emphasizes theoretical and empirical concepts related to quality improvement, risk management, and healthcare finance applicable to the work environment for nurses. NUR 512 focuses on health care improvement models, standards for excellence, tools used for successful work projects, staffing models, operational budgets, and nursing business performance. **P or CO: NUR 317, 318, 322, 358, 363, 364, 601, 651, 511.**
- NUR 513 Care Environment Systems – Practicum I (1)**  
NUR 513 focuses on application of the theoretical and empirical concepts related to quality

improvement, risk management, and healthcare finance learned in NUR 512. Students will select a specific sentinel event within their microsystem or health system and complete an analysis and synthesis of the event using a root cause analysis approach. **P: NUR 511; CO: NUR 512.**

**NUR 515 Care Environment: Systems/ Risk Management/ Quality Improvement, Healthcare Finance Practicum (1) I**

NUR 515 focuses on application of the theoretical and empirical concepts related to quality improvement, risk management, and healthcare finance. Students will select a specific sentinel event within their microsystem or healthsystem and complete an analysis and synthesis of the event using a root cause analysis approach. **P or CO: NUR 353, 511, 512, 651, 601.**

Graduate-level courses (600-700-series courses, open only to graduate students) offered by the Department of Nursing are listed in the Graduate School issue of the *Creighton University Bulletin*.

## PHARMACOLOGY

Offered by the Department of Pharmacology of the School of Medicine

**PHR 241 Pharmacology I (5) on campus**

A comprehensive coverage of the major drug groups and their mechanisms. The emphasis is on human pharmacology and the rational basis for therapeutics. Specific drug classes will be discussed with emphasis on mechanism of action, organ systems affected by the drugs, their pharmacokinetics, therapeutic indications, untoward effects, contraindications and drug-drug interactions. **P: DC.**

**PHR 241 Pharmacology I (5) Web-based**

A long-distance learning internet course designed to give comprehensive coverage of the major drug groups and their mechanisms. The emphasis is on human pharmacology and the rational basis for therapeutics. Specific drug classes will be discussed with emphasis on mechanism of action, organ systems affected by the drugs, their pharmacokinetics, therapeutic indications, untoward effects, contraindications and drug-drug interactions. **P: DC.**

**PHR 242 Pharmacology II (5) on campus**

Continuation of PHR 241. **P: PHR 241.**

**PHR 242 Pharmacology II (5) Web-based**

Continuation of PHR 241 Web-based. **P: PHR 241.**

**PHR 531 Chemical Basis of Drug Action I (3) I**

The chemical basis for drug action in vivo and in vitro. General chemical principles, physiochemical properties and drug-receptor interactions are used to derive structure-activity relationships for important drug classes permitting the understanding of the pharmacological and biopharmaceutical profiles of currently available drug products. Provides a basis for predicting biological properties and activities of future products. **P: DC.**

**PHR 532 Chemical Basis of Drug Action II (3) II**

Continuation of PHR 531. **P: DC.**

- PHR 537 Rational Drug Design and Discovery** (2) I, OD  
Scientific basis for the rational design and development of new drug molecules. Discussion of drug-receptor theory, structure activity relationships, and specific examples of the design of new drugs. **P: DC.**
- PHR 595 Directed Independent Study** (1-5) I, II, S (OD)  
Supervised independent projects that may include laboratory work, assigned readings, research papers, etc. Available in autonomic pharmacology, cardiovascular pharmacology, exocrine pharmacology, and neuropharmacology. **P: Undergraduate or Gr. stdg. and DC.**
- PHR 597 Directed Independent Research** (1-4) I, II, S (OD)  
Supervised independent research for motivated students to become involved in ongoing original research projects of the pharmacology faculty. **P: Undergraduate or Gr. stdg. and DC.**

## *PHILOSOPHY*

*For the Philosophy Program of Study, please refer to page 166.*

- PHL 107 Critical and Historical Introduction to Philosophy** (3) I, II, S  
Introduction to Western Philosophy through reading and critical discussion of classic texts selected from each of Ancient, Medieval, Modern, and Contemporary periods of philosophy, and relation of problems raised by these texts to the current human condition. Study of the nature of philosophy, the nature of knowledge, and the nature of reality. Introduction to basic principles of logic and concepts of critical thinking, including recognition of fallacies and construction and evaluation of arguments. Required of all students in Arts and Sciences, Business Administration, and Nursing.
- PHL 147 Introduction to Critical Thinking** (3) OD  
An encounter with logic as an eminently practical and down-to-earth discipline meant to be used in everyday social and business interaction, intended to introduce business students to the basic and indispensable skills of deliberative thinking, with an eye toward application in speaking and writing.
- PHL 201 Introduction to Logic** (3) AY, I  
A formal study of reasoning and argument encountered in writing. Topics include: schematization of arguments, categorical logic, Venn diagrams, propositional logic, truth tables, inductive logic, validity, soundness, and forms of inference. **P: PHL 107.**
- PHL 202 Informal Logic** (3) OD  
A practical study of argument and critical thinking, including an examination of how to recognize and evaluate arguments encountered in everyday media, and how to construct one's own arguments. Topics include: deduction, induction, validity, soundness, criticizing premises, clarifying meaning, uses of language, definition, conceptual theories, informal fallacies, conceptual analysis, causal arguments, analogical arguments, and normative arguments.
- PHL 250 Philosophical Foundations for Ethical Understanding** (3) I, II, S  
Consideration of the foundations of morality; theories of virtue and of moral obligation; principles and rules; application of theories to specific contemporary moral problems, including issues of domestic diversity. **P: PHL 107.**
- PHL 309 Meaning in America** (3) OD  
Examination of alternative sources of values in contemporary America. Emphasis will be placed on understanding both the value pluralism of American society and the person's need to articulate and embrace a life's meaning. Strategies for criticism of various contemporary lifestyles will be examined and central dimensions of making intelligent personal choices will be explored. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 311 Utopian Thought** (3) OD  
Examination of some of the classical and contemporary utopian authors: Plato, More, Bellamy, Orwell, and Wright. Some attention to the history of American communal experiments, especially the Hutterite Society. Examination of the philosophical underpinnings of utopianism: questions of class structure, liberty, property, labor, privacy, and implications for a theory of the person and society. **P: PHL 107, and one of the following: (a) PHL 201,**

(b) **PHL 250**, (c) **PHL 312**, or (d) **PHL 320**.

**PHL 312 Symbolic Logic** (3) AY, I

Study of the historical development of logic; the nature of formal systems; truth tables; the method of deduction; propositional calculus; monadic and polyadic predicate logic and first order general predicate logic; axiomatics; introduction to set theory; metalogical problems. **P: PHL 107.**

**PHL 317 Philosophy of Sport** (3) OD (Same as AMS 317)

Philosophical examination of the nature, meaning, and significance of sport, with special emphasis on the relationships among sport, play, and game. Investigation of ethical issues in sport, including sportsmanship, cheating, drug-testing, sexual equality, competition, and winning. Treatment of the relation of sport to social-political and aesthetic issues. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**

**PHL 320 God and Persons: Philosophical Reflections** (3) I, II, S

This course examines, from the viewpoint of rational inquiry, questions concerning God (classic and contemporary arguments on the existence of God and contemporary atheism and agnosticism, the nature of God, approaches toward God, the problem of evil in the light of belief in God) and human personhood (freedom and determinism, human destiny, the meaning of human life). **P: PHL 107; So. stdg.**

**PHL 321 Epistemology** (3) II

Advanced study of human knowledge. Examination of the sources of knowing in reason and sense, grounds for establishing the validity of claims to know, the relationships between various sciences and other methods and ways of knowing. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**

**PHL 324 Native American World View, Culture and Values** (3) AY, II (Same as ANT 324, NAS 324)

This course takes a multidisciplinary approach to formulating the varieties of worldviews among Native groups with an emphasis on commonalities and uniqueness among different groups during different historical eras. The course begins by critically looking at reconstructions of Native worldviews in the pre-European contact era as constructed by later Natives, anthropologists and ethno-historians based on a variety of sources. The course focuses on the many media through which Native cosmologies are expressed as well as the historical circumstances that have continued to transform Native cosmologies. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**

**PHL 325 The Ostracism of God and Modern Atheism** (3) OD

An examination of the historical origins, theoretical foundations, and internal logic of modern atheism. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**

**PHL 328 Philosophy of History** (3) OD

Examination of some speculative theories about the direction of history from Plato to contemporary authors. Examination of the critical philosophy of history that considers the nature and status of historical knowledge and methods. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**

**PHL 331 Moral Philosophy** (3) I

Advanced study of contemporary ethical theories, significant features of the moral life, and applications of both to contemporary moral problems. **P: PHL 107, PHL 250.**

**PHL 333 Philosophy of the Human Sciences** (3) OD

Examination of the methodology of the human sciences (e.g., psychology, sociology, political science) and comparison of this methodology with that of the natural sciences. Examination of Continental and Anglo-American criticisms, phenomenological social sciences, hermeneutics, and critical theory. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**

**PHL 334 Philosophy of the Natural Sciences** (3) OD

Investigation of basic concepts in natural science and of the elements of scientific inquiry — law, theory, causality, probability, confirmation and disconfirmation, proof, and scientific change. The history of the natural sciences, especially of the scientific revolution of the 16th and 17th centuries, is used as the context for analyzing these concepts. **P: PHL 107, and one**

of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.

- PHL 340 Aesthetics (3) OD**  
Examination of fundamental questions concerning art: the origins of art; the aims and purposes of art; the evaluation of art; the notion of beauty; truth in art; censorship, pornography, and art; the value of art. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 342 Metaphysics (3) II**  
Advanced study of the philosophy of being, the most general study of reality and its constitutive parts; examination of traditional and contemporary positions on the existence and nature of God, the ultimate character of matter and mind, the nature of being and becoming. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 343 Ethics and the Professions (3) OD**  
Examination of the moral dimensions of the role of the professional in contemporary society with emphasis on the professional-client relationship and the professional's social obligations. Specific moral problems in the various professions will be covered, especially in medicine and law. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 348 Philosophy of Feminism (3) OD (Same as WGS 348)**  
An examination of a number of philosophical approaches, such as those rooted in existentialism, liberalism, and Marxism, to issues concerning gender. Topics from fields such as ethics, politics, philosophy of law, epistemology, and philosophy of science will be addressed. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 351 Introduction to Chinese Philosophy (3) OD (Same as THL 351)**  
Origin and development of Chinese philosophy. The basic doctrines and moral principles that the Chinese tradition holds. Different schools of Chinese philosophy, such as Confucianism, Daoism, and Moism. How Chinese philosophy has been practiced in daily life. The conflicts between Chinese tradition and modern China. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 353 Introduction to Buddhism (3) OD (Same as THL 353)**  
Origin and development of Buddhism's basic doctrines and beliefs. The different schools of Buddhist traditions, and the changes as Buddhism spread from India through China and Japan to the West. How Buddhist teachings are practiced in daily life. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 354 Environmental Ethics (3) OD (Same as EVS 354)**  
Critical study of the anthropocentrism-nonanthropocentrism debate and the individualism-holism debate and how they affect each other in the context of the determination of ecological value. If anthropocentrism is in some ways defective, what implications do these defects have for our moral obligations to animals, plants, waters, soil, future generations, species, ecosystems, and the planet? **P: PHL 107 and PHL 250.**
- PHL 355 Science, Technology, and Values (3) OD**  
Investigation of ethical issues raised by science and technology in such areas as change of the environment, governmental control of population, restrictions on scientific research, technology assessment, work in a technological society, and genetic manipulation. Also, consideration of science and technology themselves as values, their dominance in our culture and some of the effects of that dominance on other values. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 356 Philosophy of Peace and War (3) OD**  
Examination of philosophical issues related to peace and war. Emphasis on an analysis of the traditional just war theory and on the more extreme alternatives of pacifism and the "war is hell" doctrine. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 357 Bioethics (3) OD**  
An examination of various moral problems raised by new scientific and medical knowledge and power. Emphasis is placed on developing an ethical framework to help resolve moral issues related to the doctor-patient relationship, research with human subjects, suicide, euthanasia,

abortion, new genetic technologies, allocation of scarce medical resources, etc. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**

- PHL 358 Social and Political Philosophy (3) OD**  
Critical study of classical and contemporary theories concerning the nature and value of social and political institutions such as the state, the family, and civil society. Examination of the nature and application of political ideals such as justice, freedom, equality, and community. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 359 History of Ethics (3) OD**  
Examination of the history of Western ethical theory from ancients to contemporary philosophers. Emphasis on primary sources. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 360 History of Mediaeval Ethics (3) (Same as CNE 460)**  
An investigation of mediaeval ethics, tracing its roots in classical antiquity and religious tradition, outlining its innovations, and outlining the ways in which it lays the foundations of modern ethics. **P: PHL 107 and either PHL 250 or THL 250.**
- PHL 366 St. Thomas and Thomism (3) OD**  
Study of the philosophy of St. Thomas Aquinas and the subsequent history of Thomistic philosophy, especially in 20th century scholarship. Special emphasis on Thomistic metaphysics, anthropology, ethics, and political thought. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 367 American Philosophy (3) OD (Same as AMS 367)**  
Surveys some of the works of significant figures in philosophy in America, both past and present. Includes classical American philosophy as well as important individuals outside that tradition. Focuses primarily on metaphysical and epistemological themes. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 368 Moral Psychology (3) OD**  
Moral psychology studies issues at the junction of psychology and moral philosophy. This course investigates the nature of motives, intentions, emotions, and choices and their role in explaining our acts. It also explores states of mind (such as negligence, love, and anger) that might render an agent more or less responsible for an act. Other topics for discussion include self-deception, ignorance, and omissions. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 370 History of Classical Greek Philosophy (3) AY (Same as CNE 370)**  
Examination of the origins and development of Western philosophy during the Classical period in ancient Greece; the pre-Socratics; Socrates and the Sophists; substantial study of the works of Plato and Aristotle. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 371 History of Hellenistic Philosophy (3) AY (Same as CNE 371)**  
Examination of the development of Western philosophy after Aristotle during the Hellenistic period in ancient Greece and imperial Rome. The study of Epicureanism (pleasure is the highest good), Stoicism (living in agreement with nature is the highest good), Skepticism (peace of mind is gained by suspending one's judgment on all dogmatic claims to truth), and Neo-Platonism. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 372 History of Medieval Philosophy (3) AY**  
Study of St. Augustine and the development of Scholasticism; the Arab commentators; the achievements of St. Thomas Aquinas; Duns Scotus; William of Ockham and the rise of nominalism. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 373 History of Modern Philosophy (3) I or II**  
Study of the development of Western philosophy from Descartes through Kant (1600-1800); examination of the central figures of Continental rationalism and British Empiricism, and the critical philosophy of Kant. **P: PHL 107, and one of the following: (a) PHL 201, (b)**



**PHL 250, (c) PHL 312, or (d) PHL 320.**

- PHL 374 History of 19th-Century Philosophy (3) OD**  
Study of important nineteenth-century philosophers such as Hegel, Feuerbach, Marx, Comte, Kierkegaard, Nietzsche, and Mill; themes include idealism, existentialism, Marxism, and utilitarianism. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 401 Themes in Contemporary Philosophy (3) OD**  
Examination of topics in philosophy as selected by the professor. Themes are chosen to highlight new developments in philosophy, contemporary expressions of traditional philosophical movements, or recent trends in specific philosophical traditions. Course will be subtitled in the Schedule of Courses. May be repeated to a limit of six hours. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 410 Stoicism (3) OD (Same as CNE 410)**  
Study of the philosophy originated by Zeno of Citium in the *Stoa Poikile* in Athens around 300 BCE and the influence of Stoicism in the history of Western philosophy. Investigation of the Stoic system of physics, logic, and ethics; the doctrines of naturalism, rationalism, fatalism, providence, cosmopolitanism, autarky, *apatheia*, and suicide. Possible topics include philosophy of mind, philosophy of language, freedom and determinism, and political philosophy. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 413(313) Philosophy and Literature (3) OD**  
Examination of philosophical concepts and issues crucial to understanding and appreciating works of great literature. Examination of philosophical themes within great literary works and/or literary aspects of important philosophical works. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 420 Science and Religion (3) OD (Same as SRP 420, THL 420)**  
This course explores the relationship between science and religion from three perspectives: philosophy of science, scientific theories, and theology. Issues to be studied include: reductionism vs. emergentism, the relationship between God and world (including creation and evolution), the Galileo affair, and Darwin and design. **P: PHL 250 or THL 250; Sr. stdg.**
- PHL 424 Philosophy of Mind (3) OD**  
Advanced study of philosophical writings on the relation between mental states and concomitant brain states. Examination of this problem in terms of its history and cultural significance, the metaphysical and methodological assumptions of proposed solutions, and attempts to adjudicate meta-theoretic conflict among said proposals. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 430 Rationality and Religious Belief (3) OD**  
An advanced study of central issues in the philosophy of religion, with special emphasis on contemporary discussions of traditional issues, including extended treatment of the faith-reason controversy in light of recent developments in epistemology. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 434 Philosophy of East Asian Literature and Film (3) (Same as SRP 434)**  
This course is a philosophical investigation into the moral values expressed in East Asian literature and film. Study of a wide range of masterworks will ground an examination of how Buddhism, Confucianism, and Daoism function in the lives of the peoples of eastern Asia. **P: PHL 250 or THL 250; Sr. Stdg.**
- PHL 435 Literature, Philosophy, and Economics: Critical Representations of Commercial Life (3) OD (Same as ENG 435, SRP 435)**  
This course will explore how literary, philosophical, and economic texts can reveal basic commercial forms such as the commodity, wage, labor, and capital, whose consequences for social justice we will consider. **P: PHL 250 or THL 250; Sr. Stdg.**

- PHL 440 Legal Philosophy (3) OD**  
Examination of classical and contemporary views on the nature of law. Examination of the functions of law, ways it is created and changed by emerging social conditions, and concepts of justice and punishment. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 450 Philosophy and Commercial Societies (3) OD**  
Course historically and evaluatively studies philosophers' views on the social impact of labor, money, and trade. Consideration of whether commerce shapes philosophy. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 451 Social Justice: Theory and Practice (3) OD**  
Examination of various principles of social justice in conjunction with direct social involvement through community services. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 452 Science, Media, and Risk (3) OD (Same as EVS 452, JMC 452, SRP 452)**  
This course examines how science determines environmental and biotechnological risk, how media communicate these risks, and how the public understands risk. The course explores the use of values (as well as the values used in specific cases) by each stakeholder to determine what kind of risk is acceptable. It also explores ethically acceptable decision-making processes, including making the public voice more a part of that process. The course involves reading and discussion online prior to a week-long intensive international workshop during the summer on the issues in Borgholm, Sweden. The course continues on-line after the summer school experience, culminating in a writing assignment tailored to the student's skill development and academic/career interest. **P: PHL 250 or THL 250; Sr. stdg.**
- PHL 453 Ethics and Public Policy (3) OD**  
Examination of value-laden issues that underlie the formation and implementation of public policy. Exploration of the relationship between abstract ethical principles and concrete public policy problems in the context of currently troubled environmental, biomedical, education, and social policies. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 455 Health Care, Society and Values (3) OD**  
Philosophical examination of moral issues in medicine with emphasis on the social dimensions of health care and its delivery. Consideration of questions of justice, rights to health care, the social nature of health and disease, etc. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 457 Biomedical Ethics: Philosophical and Theological Approaches (3) I, II, S (Same as HAP 457, SRP 457, THL 457)**  
An exploration of relations between philosophical and theological conceptions of ethics and moral methodologies, together with an application of the latter to select issues in biomedicine and health care policy. **P: PHL 250 or THL 250; Sr. stdg.**
- PHL 459 Marxism (3) OD (Same as PLS 459)**  
In-depth study of the philosophical and political writing of Karl Marx, the historical evolution of Marxism, and its impact on contemporary thought. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 460 Selected Topics in Ancient Philosophy (3) OD (Same as CNE 460)**  
Topical approach to selected problems or themes in ancient philosophy, or focus on an individual philosopher or school of philosophy. Course will be subtitled in the Schedule of Courses. May be repeated to a limit of six hours. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 461 The Role of Philosophy in Theology (3) OD (Same as THL 461)**  
Examination of the relation between philosophy and theology; their different ways of thinking about God and Revelation; the role that philosophy has played and can play in the development of theological thought; the impact that theological ideas have had on philosophical thought; and the interplay between faith and reason. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**

- PHL 462 The Thought of John Paul II (3) OD**  
Intensive study of the thought of Karol Wojtyla/Pope John Paul II; focus on themes adumbrated in the pre-papal, philosophical writings and developed in papal encyclicals: dignity of the human person; relation between freedom and truth; proper relationship between individual and community; responsibility in sexual love. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 463 Phenomenology (3) OD**  
Examination of the central themes of phenomenology as a method and a movement, including the ideal of a presuppositionless philosophy, the thesis of the natural standpoint and phenomenological reduction, the method of imaginative or eidetic variation, the intuition of essences, and the concepts of intentionality, constitution, and the life-world. Emphasis on the major figures of phenomenology, including Husserl, Heidegger, Sartre, and Merleau-Ponty. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 465 American Pragmatism (3) OD (Same as AMS 465)**  
Examination and critical evaluation of the major works and themes of the American pragmatists: C. S. Peirce, William James, and John Dewey. Includes an examination of their relation to other philosophers. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 467 Existentialism (3) OD**  
Examination of major existentialist philosophies and themes including the works of Kierkegaard and Nietzsche; the development of twentieth-century existentialism; examination of the works of authors such as Heidegger, Jaspers, Marcel, Sartre, Buber, Camus, Unamuno. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 469 Contemporary Analytic Philosophy (3) OD**  
Survey of the 20th century analytic movement including the thought of Russell, Moore, and Wittgenstein; logical positivism and logical atomism; recent Anglo-American philosophical analysis. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 475 Multiculturalism: History, Philosophy, Literature, and Education (3) OD (Same as SRP 475)**  
An intensive examination of the theory (and practice) of multiculturalism, this course will consider historical, philosophical, literary, and educational perspectives on the encounter between different cultures, and their relevance for the contemporary world. **P: PHL 250 or THL 250; Sr. stdg.**
- PHL 479 The Philosophy of Love and Sex (3) OD**  
A philosophical investigation of the nature of love, the different kinds of love, the relationship between love and beauty, and between love and sex. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 480 Philosophical Classics (3) OD**  
An intensive examination and comparison of two major texts in the history of philosophy—for example, Aristotle's *Nicomachean Ethics* and Spinoza's *Ethics*; or Plato's *Republic* and Rousseau's political writings. May be repeated to a limit of six hours. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 481 A Major Philosopher (3) OD**  
An intensive examination of the work of one major philosopher. Examples might include Aristotle, Hume, Spinoza, or Kant. May be repeated to a limit of six hours. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 482 Race in America: Idea and Reality (3) OD (Same as AMS/BKS/HIS/PLS/SRP 482)**  
An examination of the idea and reality of race during key phases of U.S. history, with an emphasis on the contemporary situation. To understand the multiple meanings and experiences of race, the course draws on sources from science, literature, law, and philosophy. **P: PHL 250 or THL 250; Sr. stdg.**
- PHL 492 Senior Seminar for Majors (3) II**  
Required seminar for all graduating philosophy majors. A review of the history and problems of philosophy and a final integrating philosophical experience for seniors. **P: Sr. PHL major**

or IC.

- PHL 493 Directed Independent Readings** (1-4) OD  
Subject matter and method to be worked out individually. May be repeated to a limit of six hours. **P: PHL 107, IC, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 495 Directed Independent Study** (1-4) OD  
Projects on philosophical issues or problems that are not primarily carried out through directed readings. May be repeated to a limit of six hours. **P: PHL 107, IC, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PHL 593 Advanced Readings in Philosophy** (1-4) OD  
Independent readings course worked out individually for the student. May be repeated to a limit of six hours. **P: PHL major.**

## PHYSICS

*For the Physics Program of Study, please refer to page 169.*

- PHY 107 Introductory Astronomy** (3) I, II, S  
Information about the solar system, stars, galaxies, and the universe; main methods by which this information has been acquired; how basic laws of physics have led to theories about cosmic processes, structure, and history. Some history of astronomy for better understanding modern views and demonstrating cultural impact of astronomical ideas. No formal science or mathematics prerequisites.
- PHY 108 Astronomy Laboratory** (1) I, II, S  
Laboratory sessions to acquaint the student with basic phenomena, methods, and instrumentation important in astronomy. **CO: PHY 107**
- PHY 127 Sound and Music** (3) II  
Basic course on the nature of sound, covering the generation, propagation and detection of sound, with particular applications to music. **P: MTH 135 or 137 or IC.**
- PHY 137 Light, Color, and Lasers** (3) I, S  
A basic course on the nature of light and its applications; sources of light; wave-particle duality; lasers and holography; images and illusions; special effects; color variables and color vision. The subject of light is used as a basis to explore a wide range of physical phenomena and to examine the goals, methods and limitations of science. Since its essential characteristics are embodied in the postulates of relativity and quantum theory, light is seen to lie at the foundation of modern scientific thought. Course features many classroom demonstrations. No formal science or mathematics prerequisites.
- PHY 147 Einstein and Modern Physics** (3) OD  
Historical and philosophical study of the reciprocal influences between Albert Einstein and the social and scientific communities of his time, including his changing attitude toward pacifism, his relationship to the Zionist movement, his philosophy of knowledge, his relationship with other scientists, and his basic contributions to science. No formal science or mathematics prerequisites.
- PHY 187 Introduction to Physics** (3) I  
Basic physics concepts and principles in areas of motion, force and energy, liquids and gases, thermodynamics, electricity and magnetism, light, sound, and x-ray and nuclear radiations, with examples from daily life as illustrations. Includes practice in numerical solution of simple physics problems. **P: MTH 135 or 137 or IC. No formal science prerequisites.**
- PHY 188 Physics in the Everyday World** (1) II  
Experimental investigation of physical concepts as applied to geology, astronomy, motion, fluids, electricity, magnetism, waves, and quantum physics. This course may be taken by itself or in combination with PHY 127, 137, 147, or 187. No formal science or mathematics prerequisites.

- PHY 191 Exploring the Frontiers of Physics (1) I, II**  
Survey of the current research frontier in the physical sciences Each week, faculty will introduce and lead a discussion on a contemporary research field, focusing on the scientific and social significance. No formal math or science pre-requisites, intended for students interested in pursuing careers in the physical sciences. May be repeated to a maximum of four credits.
- PHY 195 Selected Topics in Physics (1-6) OD**  
A physics project or special study in physics outside the normal curricular boundaries.
- PHY 211 General Physics I (4) I, II, S**  
First semester of the general physics sequence. Lecture, discussion, laboratory. Topics include kinematics, Newton's laws of motion, conservation of momentum and energy, rotational dynamics, thermodynamics, and fluids. Basic calculus used. Background of HS Physics or PHY 187 strongly recommended. A "workshop physics" format may be used for some sections of this course. **CO: MTH 245 or 141 or IC.**
- PHY 212 General Physics II (4) I, II, S**  
Continuation of PHY 211. Topics include oscillations, waves, optics, electricity and magnetism, DC and AC circuits, modern physics. Basic calculus used. A "workshop physics" format may be used for some sections of this course. **CO: MTH 245 or 141 or IC. P: PHY 211; MTH 245 or 141 or IC.**
- PHY 301 Modern Physics (3) I**  
An introduction to relativity and quantum physics. Special theory of relativity; quantization of electrical charge, energy and light; Bohr model of the atom; wave aspect of particles; wave-particle duality; Schroedinger equation in one dimension; applications of relativity and quantum theory in atomic, nuclear, and elementary particle physics. **P: PHY 212; MTH 246.**
- PHY 302 Modern Physics Laboratory (1) I**  
Laboratory work designed to acquaint the student with the quantization of electrical charge, energy and light, and the wave aspect of particles. 3L. **CO: PHY 301.**
- PHY 303 Electronics Laboratory (1) I**  
Basic course in electronics. Laboratory experiments include an introduction to measuring instruments, and applications of solid state components, and analog and digital integrated circuits. 3L **P: PHY 212.**
- PHY 331 Physical Optics (3) II**  
Mathematical representation of waves; interference, diffraction and polarization; coherence and incoherence; lasers; Fourier analysis and synthesis. **P: PHY 212; MTH 246.**
- PHY 332 Optics Laboratory (1) II**  
Experiments in geometrical and physical optics: interferometry; lasers and holography; analytical methods based on optical principles. 3L. **CO: PHY 331**
- PHY 351 Physics in Medicine (3) I, AY**  
A review of basic physics as it applies to radiation and the human body followed by an overview of major topics in the field of medical physics: x-rays and their uses in medical imaging, physics of nuclear medicine imaging, ultrasound imaging, magnetic resonance imaging, radiation therapy for cancer, and radiation biology. **P: PHY 212 or IC.**
- PHY 353 Introduction to Biological Physics (3) I, AY**  
An introduction to the application of physics to the microscopic world of the living cell. Topics include: Diffusion, fluid dynamics at low Reynolds-number, thermodynamics of microscopic systems, chemical and entropic forces, self-assembly of ordered structures, mechanical and nerve impulses. **P: PHY 212, MTH 246.**
- PHY 471 Classical Mechanics (3) II**  
Review of particle dynamics, the harmonic oscillator, rigid body mechanics, generalized coordinates; introduction to Lagrange's and Hamilton's equations. **P: PHY 212; CO: MTH 347 or IC.**
- PHY 481 Electricity and Magnetism (3) I**  
Development of Maxwell's equations; Laplace's and Poisson's equations and boundary value problems; electromagnetic waves. **P: PHY 212; MTH 347.**

- PHY 491 Seminar (1) I, II**  
Undergraduate seminar. Training in the organization and presentation of papers on advanced topics in physics. May be repeated to a maximum of three credits. **P: IC.**
- PHY 493 Directed Independent Readings (1-3) I, II, S**  
A readings project under the guidance of a member of the faculty. Credit by arrangement. May be repeated to a maximum of six credits. **P: IC.**
- PHY 495 Directed Independent Study (1-3) I, II, S**  
A study project under the guidance of a member of the faculty. Credit by arrangement. May be repeated to a maximum of six credits. **P: IC.**
- PHY 497 Directed Independent Research (1-3) I, II, S**  
A research project under the guidance of a member of the faculty. Credit by arrangement. May be repeated to a maximum of six credits. **P: IC.**
- PHY 521 Electronics for Scientists (3) I, OD**  
Basic course in electronics. Laboratory experiments include an introduction to measuring instruments, solid state components, and digital and logic circuits. Lecture closely follows the experiments. 1R, 5L. **P: PHY 212.**
- PHY 522 Electric Circuits (3) I, OD**  
Kirchoff's Laws. Solutions to homogeneous and non-homogeneous linear systems in electronics. AC and DC circuit response. Computer-assisted modeling of circuits. **P: IC.**
- PHY 531 Quantum Mechanics (3) I**  
Development of the formalism of non-relativistic quantum mechanics; applications to the harmonic oscillator, the hydrogen atom, square-well potential, and scattering. **P: PHY 301 and 471.**
- PHY 541 Thermodynamics and Statistical Mechanics (3) II**  
Laws of thermodynamics, thermodynamic variables, thermodynamic potentials; kinetic theory, distribution functions, classical and quantum statistics. **P: PHY 212 or CHM 341; MTH 246.**
- PHY 547 Albert Einstein: Foundation of 20th Century Physics (3) OD**  
A study of the scientific ideas of Albert Einstein and their influence on twentieth-century physics. Treatment of the evolution of these ideas along with his involvement in movements such as pacifism and Zionism. **P: IC.**
- PHY 551 Mathematical Physics (3) II, OD**  
Mathematical methods for the representation of physical processes in space and time. Fourier and other complete representations; vector calculus; tensors and matrices. Selection and emphasis on topics keyed to needs of students enrolled. **P: PHY 212; MTH 347.**
- PHY 553 Computational Physics (3) OD**  
An introduction to the computational methods most often employed within applied and theoretical physics. Each computational method is introduced in the context of a specific type of physics problem. Examples are drawn from a variety of subfields of physics including; classical, atomic, nuclear and thermodynamics. Topics include: Taylor series expansions and error estimation, numerical solutions of differential equations, solving systems of linear and/or non-linear equations, numerical solutions to partial differential equations, numerical integration techniques, Monte Carlo methods, and the Metropolis algorithm. **P: PHY 301 or IC.**
- PHY 557 Scientific Works of Einstein (3) OD**  
The scientific ideas of Albert Einstein and their role in the revolution of scientific thought in the early twentieth century. Topics covered include the basics of quantum mechanics, special theory of relativity, and general theory of relativity. **P: PHY 212; MTH 246 or IC.**
- PHY 558 Relativity: The Special and General Theories (3) S (OD)**  
Review of classical relativity (frames of reference); Einstein's special theory of relativity (length contraction, time dilation, mass dependence on speed,  $E = mc^2$ ; Einstein's general theory of relativity (gravity, equivalence of gravitation and acceleration, deflection of light, time effects). **P: PHY 212; MTH 246.**

- PHY 561 Nuclear Physics (3) II, AY**  
Application of elementary quantum mechanical theory and relativity to the study of nuclear structure, radioactive decay and nuclear models. **P: PHY 531.**
- PHY 562 Nuclear Instruments and Methods (2) I, AY**  
Laboratory work in nuclear physics designed to teach the methods and procedures of experimental nuclear physics at an advanced level and to familiarize the student with modern research equipment and its use. 3L. **P: PHY 301 and 302.**
- PHY 563 High Energy Nuclear Physics (1) OD**  
Students will read and discuss original journal articles related to the historical development of high energy physics. **P: PHY 212; MTH 246; or IC.**
- PHY 571 Solid State Physics (3) II, AY**  
Introduction to the theory of the solid state based on quantum mechanics. Crystal structure and symmetry, lattice dynamics, free electron model, and band theory of solids. **P: PHY 531.**
- PHY 572 Solid State Laboratory (1) II, AY**  
Laboratory work in solid state physics including x-ray crystallography. 3L. **CO: PHY 571 or IC.**
- PHY 585 Teaching of Physics (3) I**  
Objectives and functions of the teaching of science in terms of secondary-school learning experiences. Attention is directed to the selection, organization, and presentation of meaningful materials; selection, use and evaluation of textbooks and related aids. Specific application of course material to physics through independent projects. Meets concurrently with EDU 445. Students are expected to complete all of the course work of EDU 445 and complete an additional independent project. **CO: EDU 341 and 342.**
- PHY 587 Laser Physics (3) OD**  
A thorough review of the essential optical and physical principles needed for understanding laser characteristics, operation and design. Topics include the principle of detailed balance, absorption, stimulated emission, gain, obtaining population inversions, pumping requirements, laser cavity modes, Gaussian beams, laser resonators, Q-switching, mode-locking, and an overview of specific laser systems including gas-tube and solid-state lasers. **P: PHY 331 or IC.**
- PHY 591 Seminar in Engineering (3) OD**  
A series of lectures, discussions and engineering speakers to assist pre-engineers to define more clearly their professional goals by acquainting them with diversified career options available to engineers. Topics include: engineering career exploration and development; cooperative education and internships; and job search, resume writing and interviewing techniques. **P: IC.**
- PHY 595 Special Topics (3) OD**  
A course treating physics topics of special interest. This course will be subtitled in the Schedule of Courses and may be repeated under different subtitles. **P: IC.**

Graduate-level courses offered by the Department of Physics are listed in the Graduate School issue of the *Creighton University Bulletin*.

## ***POLITICAL SCIENCE***

*For the Political Science Program of Study, please refer to page 170.*

- PLS 101 Introduction to Politics (3) I, II**  
Introduction to the ways that human beings make collective decisions, both in governments and in other settings. Course surveys some of the perennial problems of political life, and introduces students to the ways that political scientists approach them. **P: Fr. or So. stdg. only.**
- PLS 105 Introduction to World Politics (3) I, II**  
Surveys the international political system, problems of conflict and cooperation, political geography, major forms of government, and cultural and economic sources of politics and policy. Case studies based on contemporary events using relevant political concepts. **P: Fr. or So. stdg. only.**

- PLS 121 American Government and Politics (3) I, II, S (Same as AMS 121)**  
A critical overview of American political institutions and processes, showing how these are shaped by and shape public opinion, the constitution, interest groups, elections, and the media. Required of all majors.
- PLS 215 Comparative Political Systems (3) I, II**  
Introduction to the concepts, techniques, and theories used by political scientists in understanding political systems. Comparative exploration of major processes, problems and institutions. Selected case studies of Western and non-Western states. Required of all majors. **P: So. stdg.**
- PLS 235 Interest Group Politics (3) OD**  
Examines the origins, structures, and functions of interest groups in the United States. Also evaluates the role and effectiveness of interest groups in American democracy. **P: So. stdg.**
- PLS 301 Western European Political Systems (3) I, AY**  
Introduction to party and parliamentary systems, political behavior, and policy-making processes in major West European nations. Special emphasis on the United Kingdom, France, Germany, and Italy. Contemporary policy issues such as European integration, financing of social services, economic growth and environmental regulation. **P: So. stdg.**
- PLS 302 Studies in Contemporary British Politics (3)**  
Study of the contemporary British political system including such matters as parliament, the evolving constitution, the role of the prime minister, the party system, etc. **P: So. stdg.**
- PLS 303 Politics of Russia and the USSR Successor States (3) OD**  
Course explores the emerging Russian Federation, the origins of the collapse of the Soviet Union, and the current problems of reform and reorganization. Some comparisons are made with other former Soviet Republics. **P: So. stdg.**
- PLS 305 Eastern European Political Systems (3) OD**  
Course surveys the post-communist political systems of East Europe, including Albania, Bulgaria, the Czech Republic, Hungary, Poland, Romania the Slovak Republic, and the former Yugoslavia. Topics include the collapse of communist regimes, economic and political reform, democratization, ethnic conflict, and East-West relations. **P: So. stdg.**
- PLS 310 Political Science Research Methods (4) II**  
Introduction to qualitative and quantitative methods used to test political hypotheses. Topics include research design, data collection, basic statistics, and computer-assisted data analysis. Required of all majors. **P: PLS 215.**
- PLS 311 Politics of Africa (3) I, AY (Same as AFS 311, BKS 311)**  
Introduction to politics of sub-Saharan Africa. Covers traditional African cultures, societies and politics; independence movements; and post-colonial politics. Discusses political parties, military interventionism, ethnic conflict, development policy and democratic reform. **P: So. stdg.**
- PLS 313 Politics of the Middle East (3) II, AY**  
Comparative analysis of political systems in the Middle East. Focused on the processes of political development and transformation from traditional to modern political entities. Analysis of such issues as the Arab-Israeli conflict, Islamic fundamentalism, U.S. involvement in the area, and geopolitical issues. **P: So. stdg.**
- PLS 314 Politics of Post-Communist South Eurasia (3) OD**  
Course analyzes the political systems in the generally Islamic region spanning the southern frontier of Europe from the Adriatic Sea to the Aral Sea. Topics include ethnic violence, East-West relations, democratization, market reform, nation building, and the impact of religion. **P: So. stdg.**
- PLS 315 Politics of Asia (3) I, AY**  
Introduction to the politics of selected Asian countries from a comparative perspective. Topics include political change and development; ethnic and other conflicts; domestic and regional problems; economic development; authority; and democratization. **P: So. stdg.**
- PLS 317 Latin American Government and Politics (3) II, AY**  
Overview of political systems of Latin America. Emphasis on impact of social institutions



on political process and culture. Review of colonial legacies, governmental systems, political parties and interest groups, and issues of socio-economic development and democratization. **P: So. stdg.**

- PLS 319 Politics of the Developing Areas (3) OD**  
Introduction to political and social issues underlying and forming developing areas' politics. Theories of political development, the military, patron-client systems of politics, ethnic conflict, democracy, and institutional development, statism and economic underdevelopment. **P: So. stdg.**
- PLS 320 Judicial Process (3) II**  
Organization, functioning and political role of the courts and the legal process in the United States. Detailed attention given to theories of adjudication, staffing, judicial decision-making, and judicial review. **P: So. stdg.**
- PLS 321 American Indian Tribal Government and Politics (3) (Same as NAS 321)**  
This course will provide students with an overview of the development of modern tribal governments, their powers, and the problems they face. Students will examine contemporary tribal governments and the issues currently facing tribes including economic development and intergovernmental relations. **P: So. stdg.**
- PLS 322 American Presidency (3) II, AY**  
Examines the evolution of the presidency and its role in contemporary America and in international politics. How the office is shaped by the constitution, historical precedent, public opinion, and presidential character. **P: So. stdg.**
- PLS 323 Campaign Management (3) I, AY**  
Examines the practical side of running for political office. Topics include campaign strategy, campaign organization, door-to-door campaigning, fund-raising, voter registration drives, polling, and volunteer recruitment. Students are required to work at least 50 hours on a political campaign. **P: So. stdg.**
- PLS 324 Congress and The Legislative Process (3) I, AY**  
An overview of the role of Congress in the American political system. Analyzes theories of representation, legislative processes, legislative behavior, and congressional elections. **P: So. stdg.**
- PLS 325 American States and Regions (3) OD (Same as AMS 325)**  
Description and evaluation of American state governments and regional organizations. Examination of the theory of federalism and its current status; comparative analysis of state-level political actors and institutions. **P: So. stdg.**
- PLS 326 Governing Metropolitan Areas (3) OD**  
Course examines politics and policy questions involving the governance of complex urban areas. Course covers historical shifts in urban politics and contemporary debates over metropolitan government structure, the appropriate role of the federal government, and the financing and delivery of local services. **P: So. stdg.**
- PLS 327 Minority Politics in America (3) OD (Same as AMS 327)**  
Explores the political experience of American racial and ethnic minorities with particular attention to the experience of black Americans. Reviews roots and patterns of unequal treatment of minorities, tactics and strategies used to attack these patterns, contemporary situations, and the tension between integrationist and self-determination strategies. **P: So. stdg.**
- PLS 328 Mass Media in American Politics (3) AY (Same as AMS 328)**  
Analyzes the role of the media in contemporary American politics, focusing on its impact on public opinion, elections and day-to-day government. **P: So. stdg.**
- PLS 329 Gender and Politics (3) II, AY (Same as WGS 329)**  
Examines issues of gender and politics from political theory, political behavior and public policy perspectives. Students critique democratic theory, analyze gender differences in voting and in officials' behavior, and develop proposals to address policy problems. **P: So. stdg.**

- PLS 331 Managing the Public and Non-profit Sectors (3) I** (Same as HAP 331)  
Examines administrative processes and politics in government and non-profit settings. The course emphasizes application of material to case study examples of public and non-profit organizational challenges. Course covers local, state, and national bureaucratic politics. **P: So. stdg.**
- PLS 332 Public Policy and Education (3) OD**  
Review of government policies and programs as they affect education in the United States and in other advanced democratic societies. Role of public policy in development of public, private and parochial systems. Emphasis on issues of finance and complexity of governance systems. **P: So. stdg.**
- PLS 333 Environmental Politics and Policy (3) I** (Same as EVS 333)  
An overview of the world's environmental problems from a political perspective. Focuses on the political dynamics that shape environmental policy making. **P: So. stdg.**
- PLS 334 Public Policy and Health Care (3) II** (Same as HAP 334)  
Review of government policies and programs as they affect health care in the United States and other countries. Various systems of health insurance, the private medical market, governmental provision, development and evolution of managed care systems, current U.S. federal programs. **P: So. stdg.**
- PLS 335 Federal Indian Policy and Law (3) II** (Same as AMS 335, NAS 335, SWK 335)  
Investigates the relationships between Native American and Euro-Americans in terms of how the Natives were perceived and the impact this has had on Colonial and Federal policies relating to Native populations. Emphasis is on the historical, political and cultural aspects of the relationship. **P: So. stdg.**
- PLS 336 Politics of the American Economy (3) OD**  
Review of government policies and programs as they affect the U.S. political economy. Comparative analysis of alternative governmental roles in the economy. **P: So. stdg.**
- PLS 337 Constitutional Law (3) I**  
The U.S. Supreme Court's interpretation of the constitutional issues, including its role in the political process, separation of powers, American federalism, and political accountability. **P: So. stdg.**
- PLS 339 Public Policy and Poverty in the United States (3) AY** (Same as AMS 339, SWK 339)  
Government policies and programs affecting the poor in the United States. Issues include various elements of welfare programs and policies, entitlement programs such as Medicare and Social Security, problems of intergovernmental activity in administering social welfare. Examination of various critiques of social welfare policy and a review of reform proposals. Role of organized interests and public support relative to programs affecting the poor. Skill development includes policy formulation and analysis. **P: So. stdg.**
- PLS 340 International Politics (3) I**  
Course investigates the assumptions, purposes, and preferred actions of state and non-state actors. It explores patterns of global conflict and cooperation, power, interdependence, geopolitics, political economy, war, terrorism, diplomacy, international law, and peacemaking. **P: So. stdg.**
- PLS 341 Issues and Challenges in American Foreign Policy (3) AY**  
Key problems of contemporary American foreign policy: terrorism, weapons proliferation, weak states, regional and global economic crisis, human rights, trade, relations with the Middle East, security in Europe and Asia. Course reviews major institutions in the U.S. foreign policy process. **P: So. Stdg.**
- PLS 342 Foreign Policy and Diplomacy of Major Powers (3) OD**  
Course explores and analyzes comparatively the formulation and substance of the foreign policies of selected major powers: the United States, Russia, People's Republic of China and Japan. May be repeated if country of emphasis differs. **P: So. stdg.**
- PLS 343 National Security and Strategic Studies (3) OD**  
Course examines domestic and international roots of security policies; the evolution and impact of military threat, setting strategic goals, and policies such as deterrence, arms control, crisis management, nuclear proliferation, and alliances. **P: So. stdg.**

- PLS 345 International Political Economy (3) I, AY**  
 Overview of political problems and issues associated with world economic relationships and development. Political aspects of international trade, monetary and debt relations, aid relationships, technology transfer and migration. Importance of national and multinational actors and a review of various ideological perspectives. **P: So. stdg.**
- PLS 347 International Regimes (3) I, AY**  
 Course considers major theories in international relations that begin with the assumption that the world is dominated by webs of formal and informal agreements that facilitate co-operation and limit the sovereignty of nation-states. The course considers the possibilities these relational webs (regimes) hold for the global community. **P: So. stdg.**
- PLS 355 Classics of Political Thought (3) II, AY**  
 Critical readings of Plato, Aristotle, Machiavelli, Hobbes, Locke, and Marx, with emphasis on their contributions to contemporary political understanding. **P: So. stdg.**
- PLS 356 Constitutional Issues (3) (Same as HIS 356)**  
 This course links both the Constitutional History of the United States with the Constitutional Law cases that laid the foundation for the living Constitution that exists today. The historical context and the judicial actions of the courts, from the Founding Fathers to the present, will be examined and debated. **P: So. stdg.**
- PLS 357 Alternative Political Futures (3) OD**  
 Explores speculations about interaction of humans and their natural and social environments illustrating leadership, individual liberty, global population, ecology, outer space, economics, social cohesion, and conflicts of values: Read Asimov, Heinlein, LeGuin, Simak, Ellison, Dickson, Niven, Pohl and others. **P: So. stdg.**
- PLS 360 Liberal Democracy and Its Critics (3) OD**  
 Development of classical liberalism and its influence on American conservatives and liberals. Readings include Hobbes, Locke, and Mill, classical economists, utilitarians, and American pluralist writers, as well as their critics. **P: So. stdg.**
- PLS 362 Conservative Political Thought (3) OD**  
 Major works of Burke, deTocqueville, Montesquieu and other major classical conservative authors. Twentieth Century conservatism and its diverse philosophical currents. **P: So. stdg.**
- PLS 367 Theory of Law (3) II**  
 Using narratives, judicial decisions, and scholarly articles, course examines such topics as responsibility, duty, liberty, rights, punishment, justice, and the nature of law itself. **P: So. stdg.**
- PLS 372 Equality, Minorities, and Public Policy (3) II, AY (Same as AMS 372, BKS 372, HIS 372)**  
 Incorporates continuing dialogues between a historian and a political scientist. Exploration of political processes whereby minorities have influenced the formulation and implementation of policy and governmental responses to demands for equal treatment. **P: So. stdg.**
- PLS 401 The European Union (3) I, AY**  
 Review of European co-operation and integration from the Treaty of Rome in 1958 to the present. Analysis of institutions and politics of the European Union. Issues such as currency integration, international trade, environmental and social regulation, admission of new members and movements of people. **P: So. stdg.**
- PLS 405 Ethnicity, Nationalism and Democracy (3) AY (Same as AFS 405)**  
 Course explores historical and contemporary patterns of democratization and ethnic conflict. Emphasis is on contemporary case studies and theories. **P: So. stdg.**
- PLS 407 Revolutions and Revolutionary Movements (3)**  
 Survey of major political revolutions. Case studies include France, Russia, China, Iran. Coverage of major theories regarding the causes and consequences of major revolutions as well as incomplete and failed revolutionary movements. **P: Jr. stdg.**
- PLS 410 Seminar on Comparative Politics (1-3) OD**  
 Each semester focuses on one problem or issue such as reforms in Eastern Europe, rebellion and repression in China, revolutions, the future of Israel, etc. May be repeated under different subtitles. **P: So. stdg.**

- PLS 415 Government and Politics of the People's Republic of China (3) II, AY**  
The nature of China's political culture, the distribution of power, key institutions and decision-making, political participation, and how people are mobilized for collective purposes. China's contemporary experiments in modernization. **P: So. Stdg.**
- PLS 420 Seminar on American Government and Politics (3) OD**  
Each seminar focuses on one problem or issue such as corruption in government, environmental politics, restructuring and reforming American government; etc. May be repeated under different subtitles. **P: So. stdg.**
- PLS 421 Public Opinion, Political Behavior and Survey Research (3) OD**  
Course explores how public attitudes and opinions about contemporary issues are formed and evolve. Opinion trends regarding key issues are explored, as well as techniques used to research these topics: questionnaire construction, sampling, and PC-based statistical analysis using SPSS. **P: PLS 310 or SOC 214.**
- PLS 430 Ethics and Market Reforms in the Post-Communist Countries (3) S (Same as SRP 430)**  
Seminar considers ethical problems that have emerged during the course of market reforms and democratization in post-Communist countries of Eastern Europe. It gives students an opportunity to reflect on these moral and ethical dilemmas in the actual environment. **P: Sr. stdg.**
- PLS 432 Democratic Theory (3) OD (Same as AMS 432)**  
Major themes and thinkers on the role of government and the nature of a democratic political culture. Issues such as popular control, public participation, local autonomy, individualism, political liberty, authority, and variations in democratic political ideology are explored. **P: Jr. stdg.**
- PLS 433 Public Policy Analysis (3) AY (Same as HAP 433)**  
Examination of approaches to public problem solving and public policy analysis. Key theories of power and policy, strategies for analyzing public problems and developing policy proposals, and policy in specific areas. **P: Jr. stdg.**
- PLS 435 Global Poverty and Development (3) AY**  
Theories and strategies of political, social and economic development of the least developed countries. Topics include: alternative models of development, problems of rural poverty, the roles of international organizations, political-economy of underdevelopment, international capital, and multi-national corporations. **P: So. stdg.**
- PLS 436 Politics and Ethics of Science and Technology (3) AY (Same as SRP 436)**  
Study of the interrelationship of politics, ethics and science in contemporary societies. The course examines the role of government in encouraging and regulating science and technological development in American and international settings. **P: Sr. stdg.**
- PLS 437 Religion and Public Life in the United States (3) OD (Same as AMS 437)**  
Survey of American religious experiences and their impact on politics. Includes the guarantees of religious liberty, religion and political activism, and religion as a source of conflict and consensus. **P: So. stdg.**
- PLS 438 Contemporary Issues in Civil Liberties (3) AY**  
Supreme Court's role in interpreting constitutional rights, including the freedom of expression and religion, privacy and autonomy, and equal protection of law. **P: PLS 337.**
- PLS 439 Dangerous Words: The First Amendment to the Constitution (3) AY**  
Course confronts the distinction between words and actions that underlies much of our understanding of the First Amendment's guarantees of freedom of speech and press. Uses constitutional decisions regarding the First Amendment to explore the nature of language and its effects. **P: Jr. stdg.**
- PLS 440 Seminar on International Studies (1-3) OD**  
Each seminar focuses on one problem or issue such as disarmament, the future of the Atlantic Alliance, terrorism, Third World debt, Russian-American relations, Islamic fundamentalism, etc. May be repeated under different subtitles. **P: So. stdg.**

- PLS 444 Non-Violence and Peaceful Resolution of Conflict: Cross-Cultural and Political Perspectives** (3) I (Same as ANT 444, JPS 444, SRP 444)  
Peace is more than the absence of war. Course seeks to understand differing views of peace, violence, war, non-violence, and peaceful resolution of conflict. Students assess their views on alternatives to violence and apply differing modes of conflict resolution. **P: Sr. stdg.**
- PLS 451 Theories of Peace and World Order** (3) OD  
Classical literature and contemporary research about attempts to define, describe, prescribe, and implement plans for political order on regional and global scales. **P: Jr. stdg.**
- PLS 459 Marxism** (3) OD (Same as PHL 459)  
In-depth study of the philosophical and political writing of Karl Marx, the historical evolution of Marxism, and its impact on contemporary thought. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- PLS 461 Contemporary Political Theory** (3) OD  
How political scientists conceptualize and interpret key issues of contemporary political life. Issues such as the expansion and centralization of legitimate power, logic of organizational behavior, rational-choice theories of individual and group behavior and others. Authors include Dahl, Lowi, Huntington, Downs, Lindblom, Olson, Ostrom, Simon, etc. **P: Jr. stdg.**
- PLS 463 Game Theory and Social Choice** (3) OD  
Introduction to economic modeling of political interactions and social choice processes. Covers a set of analytic tools that are used to explain and predict political and economic behavior. **P: Jr. stdg.**
- PLS 465 Faith and Political Action** (3) AY (Same as SRP 465)  
Challenges students to understand theological and political science perspectives on social policy issues and the work of religious-based organizations in politics. Course includes 20 hours of work with a community partner during the semester. **P: Sr. stdg.**
- PLS 468 Christianity and Power: A Russian Case Study** (3) OD (Same as SRP 468, THL 468)  
Challenges students to consider the link between religion and politics. Starting from the assumption that politics is fundamentally about the competition of ideas, it considers the ideals of Russian Orthodoxy and measures them against the goals and actions of the Russian state. **P: Sr. stdg.**
- PLS 472 International Conflict** (3) II  
Patterns and possible causes of international terrorism, legitimacy, ethnic conflict, and interstate war. Examines political culture, social context, economic interests, interplay of nationalism and political change. Explores contemporary theories including realism and neo-realism, liberalism and neo-liberalism, bargaining, and game theory. **P: So. stdg.**
- PLS 481 Poverty, Development, and Public Policy** (3) S (Same as SRP 481)  
Course explores in an international and comparative way the multi-dimensional nature of poverty, including such factors as political powerlessness, physical and social isolation, racial and gender discrimination and economic systems. Ethical issues regarding these are explored. **P: Sr. stdg.**
- PLS 482 Race in America: Idea and Reality** (3) OD (Same as AMS/BKS/HIS/SRP 482)  
An examination of the idea and reality of race during key phases of U.S. history, with an emphasis on the contemporary situation. To understand the multiple meanings and experiences of race, the course draws on sources from science, literature, law, and philosophy. **P: Sr. stdg.**
- PLS 483 Public Affairs Internship** (1-6) I, II, S  
Students work as entry-level professionals in selected offices of government or government-related agencies and organizations. May normally be repeated to a limit of six hours unless a departmental waiver is granted. Normally, junior standing and a 3.0 grade-point average are required for internship placement. **P: IC.**
- PLS 485 Practicum in the United Nations** (1-3) II  
Research and supervised simulation of the diplomatic roles of actors in the United Nations System. **P: IC.**
- PLS 487 Practicum in Selected National Policy Issues** (1-6) I, II, S  
Students participate in seminars, workshops, and projects on selected policy issues in

Washington, D.C. **P: IC.**

- PLS 488 Senior Colloquium in Political Science (3) OD**  
Intensive survey of selected seminal authors in political science. **P: Jr. Stgd.**
- PLS 490 Advanced Research Practicum (3) OD**  
Intense exploration of a research project to include the development of the research question, compilation of the literature review, explication of the hypothesis(es) and theory, acquisition and testing of the data, and formation of conclusions and implications. Goal is an article of publication quality. **P: IC.**
- PLS 493 Directed Independent Readings (1-3) I, II, S**  
Program of readings arranged by the student in cooperation with a consenting instructor in the department. May be repeated to a limit of six hours unless departmental waiver is granted. **P: IC.**
- PLS 497 Directed Independent Research (1-3) I, II, S**  
Individual research and writing under the direction of a consenting instructor in the department. May be repeated to a limit of six hours unless department waiver is granted. **P: IC.**
- PLS 510 The New Institutionalism (3)**  
The New Institutionalism is the reigning paradigm of comparative politics. It applies rational choice theories and perspectives to the analysis of differing domestic institutional designs in an effort to determine their impact on political outcomes given the preferences of the relevant political actors in the system. Among the institutions which the course will consider are regime type, committee systems, parliamentary coalitions, bicameralism, vetoes, electoral systems, and constitutional courts. **P: IC.**
- PLS 520 Statistical Methods for Public Administration and Policy Analysis (3) OD (Same as HAP 520)**  
Application of research methods and statistical tools to public management tasks and questions. **P: PLS 310 or SOC 212.**
- PLS 537 International Law (3) II**  
Contemporary states and international law. Course engages controversies over who is subject to this law, who creates and enforces it, and how international law and international politics interact. Didactic and case-study approach, including case briefs and research presentations.



**P: Jr. stdg.**

- PLS 591 Senior Research Seminar in Political Science (3) I**  
Students work in seminar environment on original research project and prepare individual senior theses required for graduation. Required of all majors. **P: PLS 215, PLS 310; Sr. stdg.**

*Washington Internships:* College students can combine a work and learning experience for credit. Participants can intern in Congressional offices, executive agencies, and with groups in many other areas such as the environment, consumer affairs, journalism, communications, legal affairs, labor relations, health policy, arts, education, science, public relations, urban affairs and women's issues. Students also attend seminars taught by representatives of Washington D.C.'s major governmental agencies, interest groups, and corporations. Contact Dr. Graham Ramsden for further information.

## *PSYCHOLOGY*

*For the Psychology Program of Study, please refer to page 175.*

- PSY 111 Introductory Psychology (3) I, II, S**  
Introduction to the methodologies and basic concepts in the study of behavior. Intended to give the nonmajor an overview of the science of psychology and to serve as a foundation for further study in psychology for the major.
- PSY 211 Introductory Statistics (3) I, II, S**  
Introduction to descriptive and inferential statistics. Descriptive statistics include frequency distributions, measures of central tendency and variability, correlation and regression. Inferential statistics include z-test, t-test for independent and correlated samples, analysis of variance, and nonparametric tests. **Not open to Psychology majors.**
- PSY 270 Personal Growth and Development (3) OD**  
Encourages students to explore, expand, and deepen their understanding of themselves. Activities are structured to provide opportunities for self-discovery, either working alone or with others in pairs or small groups.
- PSY 271 Developmental Psychology (3) OD**  
An overview of psychological, emotional, social, and physical patterns of behavior related to the following stages: prenatal, infancy, and early childhood; late childhood; adolescence; early adult years; middle adult years; and late adulthood. **P: PSY 111. Not open to Psychology majors.**
- PSY 272 The Psychology of Separation and Loss (3) OD**  
Discussion of the insights and scholarly research on the ramifications of separation and loss, as well as strategies for coping with these events. Areas of concern include death and dying, the loss of relationships, the loss of physical and cognitive abilities, employment loss, and loss of self-esteem. **P: PSY 111.**
- PSY 313 Research Methods and Statistics I (3) I, II, S**  
This course will teach and apply the statistics and research methods utilized in non-experimental psychological research. The content covered in this course will provide a strong foundation for understanding psychology as a science and will include application of course material using statistical software. **P: PSY 111.**
- PSY 314 Research Methods and Statistics I - Laboratory (1)**  
This laboratory applies knowledge gained in the lecture course. It includes research ethics, conducting descriptive research studies in the behavioral sciences, and writing research reports using APA writing style. You will learn how to design, implement, analyze, and report on an independent, descriptive research project. **P: PSY 111; CO: PSY 313.**
- PSY 315 Research Methods and Statistics II (3) I, II**  
This course will teach and apply the statistics and research methods utilized in experimental psychological research. The content covered in this course will provide a strong foundation for understanding psychology as a science and will include application of course material using statistical software. **P: PSY 111, 313; CO: PSY 316**

- PSY 316 Research Methods and Statistics II Laboratory (1) I, II**  
This laboratory applies knowledge learned in lecture. It focuses on research ethics, conducting experimental studies, and writing research reports using APA style. By the end of the semester, you will have designed, implemented, analyzed, and reported on an independent research project. **P: PSY 111, 313; CO: PSY 315.**
- PSY 326 (366) Undergraduate Internship in Psychology (3-4) I, II**  
Provides advanced students with opportunities for field experience in clinical/counseling, human/social services, and law-related. Carried out in cooperation with Omaha-area agencies that can provide adequate professional supervision of students. Experiences vary depending upon the characteristics of the student and the agency. In addition to placement time, there is a required discussion session on campus. May be repeated to a limit of eight hours. **P: PSY major; Jr. stdg.; IC.**
- PSY 341 Infant and Child Development (3) I, II**  
Development of the child from conception through late childhood. Covers such topics as emotional, physical, motor, cognitive, and social development, as well as issues encountered in child-rearing. Must spend 16 hours in out-of-class field placements working with children in the community. **P: PSY 111.**
- PSY 342 Adolescent and Adult Development (3) II**  
Examines the second part of the lifespan. Human development in adolescence, young adulthood, midlife, and late adulthood is explored through discussion of various topics including: physical changes, cognitive development, social and personality development, the transition to adulthood, sexuality and relationships, marriage, parenthood, work and retirement, stress and coping, and death and dying. **P: PSY 111.**
- PSY 343 Psychology of Personality (3) I, II**  
Principles, theories and assessment of personality. **P: PSY 111.**
- PSY 344 Social Psychology (3) I, II**  
Exploration of the social factors that influence individual behavior. Areas covered include attitude change and persuasion, conformity, aggression, altruism, and perceiving others. **P: PSY 111.**
- PSY 351 Abnormal Psychology (3) I, II**  
Survey of psychological disorders of adulthood with emphasis on the clinical description of each disorder, explanatory theories, research on etiology and treatment, and issues in prevention. **P: PSY 111.**
- PSY 352 Health Psychology (3) I, II**  
Explores the psychological factors involved in health and illness. Topics include stress, disease and personality, patient compliance, health transactions, medical decision-making, and training of health professionals. **P: PSY 111.**
- PSY 353 Industrial Psychology (3) I**  
An overview of industrial (personnel) and engineering (human factors) psychology. Topics include methodology, employee selection, testing validation procedures, performance appraisal, training, legal issues, and selected human factors topics. **P: PSY 111.**
- PSY 361 Neuropsychology (3) I**  
An introduction to how the neurological organization of the brain influences the way people think and act. Discussion focuses primarily on dysfunctional systems. Topics include motor disorders, agnosias, attention, memory, and developmental disorders. **P: PSY 111.**
- PSY 362 The Psychology of Memory (3) OD**  
This course is intended to offer an in-depth view of human memory. **P: IC.**
- PSY 363 Psychology and the Law (3) I**  
Examination of the interface between psychology and the law in criminal and civil issues. Topics include juvenile justice, civil commitment, the duty to warn, rights of victims and the accused, competency to stand trial, the insanity defense, use of confessions, eyewitness reliability, and use of expert witnesses. **P: PSY 111.**



- PSY 367 Contemporary Trends in Psychology (3) OD**  
Our dynamic society gives rise to psychological issues of current importance. The flexibility of this course will permit exploration of current topics. May be repeated to a limit of six hours. **P: See prereq. listed in the Schedule of Courses.**
- PSY 369 Organizational Psychology (3) II**  
An overview of organizational psychology. Topics include motivation, leadership, group processes, organizational stress, job satisfaction, communication processes, decision theory, power, and organizational effectiveness, development, change, and theory. **P: PSY 111.**
- PSY 374 Human Sexuality (3) I**  
An empirical basis for understanding human sexuality; examination of personal sexual values and standards in the context of the physiological, psychological, and socio-cultural components of human sexuality. **P: PSY 111. Not open to students enrolling as auditors.**
- PSY 375 Marriage and Family Relationships (3) II**  
A scholarly consideration of the many factors involved in the development and maintenance of marital and family relationships. Areas of study include love, dating and courtship, mate selection, marital evolution, work roles, finances, and parenting. **P: PSY 111. Not open to students enrolling as auditors.**
- PSY 376 School Psychology (3) II**  
This course is designed to be an introduction to the application of psychology in the school systems. School-related issues, including those applying to systems and individuals, will be discussed.
- PSY 377 Psychology and AIDS (3) II**  
A study of the psychological aspects of HIV/AIDS, its impact on our health care systems, and society in general.
- PSY 423 Tests and Measurements (3) I**  
Designed to introduce the foundations of measurement theory and practice (reliability and validity) upon which all psychological tests rest. In addition, students will become acquainted with the history and current status of popular tests of mental ability (I.Q.) and personality. **P: PSY 111 and 313.**
- PSY 424 History and Systems of Psychology (3) II**  
Survey of some historical antecedents of modern psychology and a review of major contributors to psychology and their particular historical contexts. **P: PSY 111.**
- PSY 426(474) Undergraduate Internship in Industrial/Organizational Psychology (3-4) OD**  
Field experience in industrial-organizational psychology for upper-level students. Students are placed in Omaha-based organizations. Past placements have offered experience in employee selection, performance appraisal, training, compensation, affirmative action, test construction and validation, and various legal aspects of industrial-organizational psychology. May be repeated to a limit of eight hours. **P: PSY 353; PSY major, Jr. stdg.; IC.**
- PSY 428(478) Multicultural Issues in Psychology (3) I, II (Same as BKS 428)**  
Explores gender, ethnic, and cultural factors that influence the beliefs, values, behaviors, and experiences of individuals. Provides a fundamental understanding of one's own culture and behavior through exploration of a variety of cultures. **P: PSY 111.**
- PSY 431 Cognitive Psychology (3) I, II**  
Survey of current psychological views of human information processing including such topics as attention, perception, short-term memory, long-term memory, reasoning, and problem solving. **P: PSY 111.**
- PSY 434 Learning: Basic Processes (3) I**  
Explores experimental paradigms of learning. Topics include classical and operant conditioning, discrimination, generalization, and extinction of learned responses. **P: PSY 111.**
- PSY 436 Sensation and Perception (3) OD**  
Focuses on the psychological impact of physical stimulation. The processes whereby humans derive meaning from visual, auditory, tactual, olfactory and gustatory stimulation are discussed. **P: PSY 111.**

- PSY 437 Physiological Psychology (3) II**  
Examines biological bases of behavior with emphasis on mechanisms of neuron function and general neuroanatomy. Sensory function, motor control, and current information regarding the physiology of learning and memory are also discussed. **P: PSY 111.**
- PSY 462 Special Issues in Adolescence (3) OD**  
Study of the characteristics of the adolescent and the issues related to the adolescent within the family, school, and community. **P: PSY 111.**
- PSY 463 Forensic Psychology (3) II**  
Surveys the intersection of mental health practice and the law. Focuses on what clinical forensic psychology has to offer legal processes and how the law may dictate the interests of and research conducted by practicing psychologists. **P: PSY 111, 351.**
- PSY 464 Developmental Psychopathology (3) OD**  
Introduction to the variety of psychopathological disorders that occur during infancy, childhood, and adolescence. Conditions studied include attachment disorder, autistic disorder, conduct disorder, schizophrenia, eating disorders, and dissociative identity disorder. **P: PSY 351, PSY 341; Jr. stdg.**
- PSY 465 Advanced Behavioral Research (3) OD**  
A comprehensive research course that directs students to integrate classroom research concepts with hands-on experience through existing research programs. Especially recommended for majors planning graduate study. **P: 315, 316; IC.**
- PSY 467 Human Factors (3) OD**  
An overview of human factors and ergonomics. Discussion of various areas of psychology and engineering in relation to designing objects and the environment to meet the limits and capabilities of human processing. Topics include information input, human output and control, workplace design, environmental conditions, and human factors applications. **P: PSY 111.**
- PSY 469 Psychological and Theological Approaches to Vocation (3) (Same as SRP 469, THL 469)**  
This course examines the concept of vocation from an interdisciplinary perspective using insights from psychology and theology. Research and theory from the fields of personality, motivation, and social psychology are complimented with the theology of the Incarnation, Ignatian spirituality, and relevant texts from four historical periods of Christianity. **P: PHL 250 or THL 250 and Sr. stdg.**
- PSY 471 Crisis Intervention (3) I, S**  
Offers an introduction to the front-line interventions and basic therapeutic techniques used in crisis management. Skills are taught through their applications to specific crises including battering, sexual assault, substance addiction, suicide, and bereavement.
- PSY 472 Group Dynamics (3) OD**  
An exploration of the social psychological aspects of group dynamics as they apply to all types of small groups. Topics covered include group goals, team development, group cohesion, leadership, decision-making, and dealing with diversity. **P: PSY 111.**
- PSY 473 The Psychology of Gender (3) (Same as WGS 473) OD**  
This course will examine the topic of gender - the behaviors and attitudes that relate to (but are not entirely congruent with) biological sex. A critical review of gender research is at the center of this class. We will review empirical articles on sex, gender-related behaviors taken from the areas of psychology, sociology, biology, biochemistry, neurology, evolution, and anthropology to generate an overall picture of gender from a psychological perspective. **P: IC.**
- PSY 480 Advanced Statistics (3) OD**  
An exploration of various regression and analysis of variance techniques. Other topics such as meta-analysis and factor analysis will be considered. Students will become familiar with a common statistical package for data analysis. This course is designed for those interested in gaining an in-depth understanding of various statistical procedures for a greater ability to analyze data and to understand research results. Students interested in attending graduate school should consider this course. **P: PSY 315 or PSY 211 or IC.**

- PSY 481 Drugs and Behavior (3) I**  
This course will provide an overview of psychotropic drugs, both legal and illegal. Topics will include basic psychopharmacology, physiological brain effects, historical and current drug and drug-war American culture, social impacts and controversial issues related to drug use and abuse.
- PSY 491 Honors Seminar (3) I**  
Selected senior students, under the direction of the faculty member, will address some topic that has current prominence in the field of psychology. Students will do an extensive reading of the literature, discuss their findings with the group, and then produce a quality paper on the topic. Participants will be selected by the faculty of the Department of Psychology. **P: IC; Sr. stdg.**
- PSY 495 Directed Independent Study (1-3) I, II, S**  
Provides the student an opportunity to design a course of study in a particular area of interest in psychology. The content may be applied or academic in nature, and the student is required to work with a faculty member in the design and implementation of this course of study. May be repeated to a limit of six hours. **P: PSY major; Jr. stdg.; IC.**
- PSY 497 Directed Independent Research (1-3) I, II, S**  
Provides the student an opportunity to explore a particular area of interest. This exploration might be in the form of empirical research or library research. The content will be agreed upon by the student and a faculty member in the Department of Psychology. May be repeated to a limit of six hours. **P: PSY major; Jr. stdg.; IC.**
- PSY 540 Professional Orientation and Ethics in Counseling (3) I, S (Same as COU 540)**  
A survey of the counseling process including the role of the counselor, characteristics of clients, helping and referral skills, and theories of counseling. **P: Sr. stdg.**
- PSY 590 Counseling Significant Losses (3) I (Same as COU 590)**  
An investigation of the counseling process as applied to life events that occur in the area of significant loss. An investigation of the role of the counselor, characteristics of clients, helping and referral skills, and theories of counseling as applied to significant loss events.

## ***RATIO STUDIORUM PROGRAM***

*For the Ratio Studiorum Program of Study, please refer to page 95.*

- RSP 101 The Introduction to the Culture of Collegiate Life for College of Arts and Sciences Students (1) I**  
This course in Creighton's Ratio Studiorum Program introduces first-year students in the College of Arts and Sciences to life at Creighton University. It examines key elements of collegiate life including the meaning and value of a liberal arts education; the University's Jesuit, Catholic history and key Ignatian values; and the vocational aspirations and challenges common to all freshmen. Students are introduced to the CCAS "Ratio Studiorum" or plan of study, including the College's six learning objectives and the degree requirements (major and Core). Students learn about the culture of scholarship and academic integrity. During the fall semester a book that addresses aspects of self-exploration and self-discovery is assigned and will be discussed in class. The class will be taught by a Faculty Preceptor and supported by a Decurion (a junior or senior invited by the Faculty Preceptor).
- RSP 102 The Introduction to the Culture of Collegiate Life for School of Nursing Students (1) I**  
This course in Creighton's Ratio Studiorum Program (RSP) introduces first-year students to life at this Jesuit University. It facilitates a smooth transition from high school by examining key elements of collegiate life, such as the meaning and value of a liberal arts education; the Jesuit, Catholic history and values; and the vocational aspirations and challenges common to all freshmen. Students are introduced to the School of Nursing's "Ratio Studiorum" or plan of study, including the School of Nursing Program Objectives and degree requirements. They learn about the culture of scholarship and academic integrity. Prior to freshman year, a summer reading which addresses some aspect of self-exploration and self-discovery is assigned and will be discussed in class. Decurions or peer academic leaders will join the Students and Advisor and participate in this venture. Senior nursing students who have been

selected by each Advisor will serve in this role.

- RSP 103    The Introduction to the Culture of Collegiate Life for College of Business Administration Students (1) I**  
This course introduces first-year students to life at a College of Business Administration in a Jesuit University. It facilitates a smooth transition from high school by examining key elements of collegiate life, such as the meaning and value of a liberal arts education; the Jesuit, Catholic history and values; and the vocational aspirations and challenges common to all freshmen. Students are introduced to the College of Business Administration “ratio studiorum” or plan of study, including the College’s six learning goals and the degree requirements. They learn about the culture of scholarship and academic integrity. They are introduced to leadership concepts and the College’s leadership development program.
- RSP 104    Introduction to the Culture of Collegiate Life for Honors Students (1) I**  
This course in Creighton’s Ratio Studiorum Program introduces first-year honors students to life at this Jesuit University. It facilitates a smooth transition from high school by examining key elements of collegiate life, such as the meaning and value of a liberal arts education; the Jesuit, Catholic history and values; and the vocational aspirations and challenges common to all incoming students. Honors students are introduced to the CCAS “ratio studiorum” or plan of study, including the College’s six learning objectives and the degree requirements (major and Honors program). They learn about the culture of scholarship and academic integrity. Each year a course reading, which addresses some aspect of self-exploration and self-discovery is assigned and will be discussed in class. Decurions or peer academic leaders are junior or senior students invited by the Freshman Preceptor (adviser) to join him/her in this venture.
- RSP 105    Making the Transition: The Introduction to the Culture of Collegiate Life for Transfer Students (1) I, II**  
This course in Creighton’s Ratio Studiorum Program introduces transfer students from CoBA and CCAS to life at Creighton University. It examines key elements of collegiate life including the meaning and value of a liberal arts education; the University’s Jesuit, Catholic history and key Ignatian values; and the vocational aspirations and challenges common to transfer students. Students are introduced to the CCAS “Ratio Studiorum” or plan of study, including the College’s six learning objectives and the degree requirements (major and Core). Students learn about the culture of scholarship and academic integrity. Specific issues which are unique to transfer students are also addressed. During the semester a book that addresses aspects of self-exploration and self-discovery is assigned and will be discussed in class. The class will be taught by a Faculty Preceptor and supported by a Decurion (usually a former transfer student invited by the Faculty Preceptor).
- RSP 213    Ratio Studiorum Leadership for Business Administration Students (1) I**  
RSP leaders assist a faculty preceptor/advisor in the direction of the RSP section. The student leader joins with the faculty preceptor in socializing new freshmen to the academic environment through mentoring, modeling and problem solving. **P: Approval of the Program Director.**
- RSP 120    Strategies for Academic Success (2) I**  
As part of the University’s “Ratio Studiorum Program”, this course is designed to provide comprehensive college level study skills that apply to academic and career success. Strategies and techniques are presented and integrated with the exploration of motivation and goal setting. **P: Dean’s Office Placement**

## *RUSSIAN*

- RUS 101    Beginning Russian I (3) I**  
Course designed to focus on the essential elements of basic communication and develop all

four language skills (listening, speaking, reading and writing), as well as provide insight into Russian life and culture.

**RUS 102 Beginning Russian II (3) II**  
Continuation of RUS 101. **P: RUS 101 or equivalent.**

**RUS 201 Intermediate Russian I (3) I**  
Course designed to help students make the transition to natural communication and to develop further all four language skills (listening, speaking, reading and writing), by using literary/cultural readings and grammatical exercises. **P: RUS 102 or equivalent.**

## ***SENIOR PERSPECTIVE***

*For the Senior Perspective Program of Study, please refer to page 176.*

**Prereq:** Sr. stdg. and completion of “Foundations for Ethical Understanding” (PHL 250 or THL 250).

**SRP 401 Science and Uncertainty in a Pluralistic World (3) OD**  
This course examines how scientific knowledge is obtained and understood. The social impact of the formulation and acceptance of scientific models will be discussed. Topics to be considered include uncertainty in measurement, the impact of the observer on the phenomenon observed, and the effect of our need for certainty in our beliefs, judgments, and relationships. The course will provide the opportunity for reflection on the Creighton undergraduate experience and the commitment required after graduation.

**SRP 409 Race and Gender Relations: Moral and Ethical Dilemmas (3) OD (Same as ANT 409, SWK 409, WGS 409)**

This course explores the multiple-faceted experience of being a person of color, a specific gender, and an immigrant in the United States. This course examines institutional forces (economic, educational, familial, political, and social welfare) that influence the structure and status of persons of color, immigrants, and women and men. Emphasis is placed on understanding the diversity of the United States and the connections between and among race, gender, and class in their complexity. Ways to better understand and interact are presented, in addition to ways to foster social change.

**SRP 412 Sickness, Disability, and Healing in the Biblical and Modern Worlds (3) OD**  
This course studies biblical texts dealing with sickness, disability, and healing in order to critically reflect on health care issues. Topics are addressed under broad headings: The Body, Sickness and Health: Cultural Definitions and Social Meanings; The Illness Experience; Health Care System, Ancient and Modern; Access and Quality Care; The Experience of Disability; Ritual and Health Care. Readings include both biblical and modern texts and incorporate the methods and perspectives of various disciplines: biblical studies, anthropology, sociology, literature, and ancient history.

**SRP 416 For the Greater Glory: The Jesuits, Their History and Spirituality (3) OD (Same as HIS 416, THL 416)**  
An examination of the Society of Jesus from its founding by Ignatius of Loyola during the pivotal 16th century, through suppression and recovery to the challenges of the modern, Post-Vatican II era, this course seeks to understand the Jesuits on two levels: through their controversial history, set within the context of their times and as represented by the lives of selected individuals; and through the development of their particular spirituality, Ignatian methods of prayer and discernment of spirits, as originated in the Spiritual Exercises and enhanced over time. Students will have an opportunity both to analyze Jesuit history and to experience Ignatian spirituality in their own interior lives.

**SRP 418 Jesus Through the Ages: Ideas and Images Toward a Coherent Christian Identity and Ethic (3) (Same as ART 418, THL 418)**  
Employing methods of the fine and performing arts and theology (historical and systematic), this course will seek the “real” Jesus amidst a plethora of images and ideas used by Christians throughout the ages to depict Jesus Christ. It will critique the historical-cultural dependencies of these images and ideas to discern which of them, if any, remain normative for Christianity, which are time-bound, which still speak powerfully, which do not-and why. In the process this course will not only inform students about the single most significant figure in human history but engage them in a personal search for an authentic Christian identity and ethic.

- SRP 420 Science and Religion** (3) OD (Same as PHL 420, THL 420)  
This course explores the relationship between science and religion from three perspectives: philosophy of science, scientific theories, and theology. Issues to be studied include: reductionism vs. emergentism, the relationship between God and world (including creation and evolution), the Galileo affair, and Darwin and design.
- SRP 422 Children of Poverty: An Interdisciplinary Perspective** (3) OD (Same as SWK 422)  
An interdisciplinary course addressing a variety of issues concerning children of poverty in America including policy, justice, and ethical issues related to economics, health, law, mental health, family, housing, and education.
- SRP 425 Myths That We Live By** (3) (Same as CNE 425)  
Examination of the values expressed in ancient classical and Near Eastern myths, how they were reappropriated in new context, and how they continue to express fundamental values of and insights into human life.
- SRP 426 The West of the Imagination: Art, History, and Myth of the American West** (3) OD (Same as AMS 426)  
This is an interdisciplinary course that compares the West of American history to the West of popular culture. It will examine the history of the frontier and the West and study their impact on American culture. The course begins with the mixing of European, African, Mexican, Asian and Indian cultures in the late 19th century in the trans-Missouri West and culminates with an analysis of the current state of affairs in that geographic area.
- SRP 428 Film and the Fine Arts** (3) OD (Same as ART 428, THR 428)  
Film as an art form and its relationship to art history, music, and theatre history; the history of styles of acting, design, music, and art in film in the 20<sup>th</sup> century. Criticism of film art. Course requirements include discussion, examinations, and critical writing. Extensive use of the Internet.
- SRP 430 Ethics and Market Reforms in the Post-Communist Countries** (3) OD (Same as PLS 430)  
Seminar considers ethical problems that have emerged during the course of market reforms and democratization in post-Communist countries of Eastern Europe. It gives students an opportunity to reflect on these moral and ethical dilemmas in the actual environment.
- SRP 431 Mathematical History, Philosophy, and Ethics** (3) OD (Same as HIS 431, MTH 431)  
An examination of mathematics and mathematical ideas and their relation to philosophical and ethical views from the ancient Babylonians and Pythagoreans to the present. Special attention will be given to non-Western mathematics, ethnomathematics, twentieth-century game theory, encryption, and ethical issues facing the mathematician and society in the past and today. The course assumes no mathematical background beyond the Core E requirements.
- SRP 433 The Mobile Heart: Permanence and Change in Modern British and American Culture** (3) OD  
Interdisciplinary study of literature, architecture, social ethics, economics, environmental design and material culture, focused on the themes of permanence and change in 19th- and 20th-century British and American literature and in American cultural studies. Mobility and change are contrasted with stability and permanence as personal and societal choices that involve ethical questions of consequence to individuals and groups.
- SRP 434 Philosophy of East Asian Literature and Film** (3) (Same as PHL 434)  
This course is a philosophical investigation into the moral values expressed in East Asian literature and film. Study of a wide range of master works will ground an examination of how Buddhism, Confucianism, and Daoism function in the lives of the peoples of eastern Asia. **P: IC.**
- SRP 435 Literature, Philosophy and Economics: Critical Representations of Commercial Life** (3) OD (Same as ENG 435, PHL 435)  
Drawing on contemporary work in critical theory, literary criticism, aesthetics, and rhetoric, this course examines the relations of philosophy, economics, and literature through an assessment of the representation of economic phenomena in selected literary and philosophical

texts. The course will explore 1) how an analysis of such texts can reveal underlying social forms such as private property, the commodity, wage labor, and capital; and 2) how these ethically consequential forms tie in with problems of poverty, unequal distributions of income and wealth, overconsumption and depletion of natural resources, competition and conflict, and social instability. **P: IC.**

- SRP 436 Politics and Ethics of Science and Technology** (3) OD (Same as PLS 436)  
Study of the interrelationship of politics, ethics and science in contemporary societies. The course examines the role of government in encouraging and regulating science and technological development in American and international settings.
- SRP 437 The Environment and Race, Class, and Gender** (3) OD  
This course investigates whether and to what extent human interaction with the natural environment has a bearing upon ethical interactions among individuals of different races, classes, and genders within an increasingly global social environment. The course will draw from a variety of disciplines, including philosophy, literature, science and public policy to explore questions of environmental justice.
- SRP 438 Literacy and Community: Reading and Writing Toward Social Change** (3) (Same as ENG 438)  
This senior perspective course will allow us to examine literacy as an issue of human and social concern, as we pay particular attention to the relationship among literacy, socioeconomic and political power. Through interdisciplinary academic inquiry and community-based learning, we will: examine competing conceptions of literacy and analyze the social ends each definition serves; reflect on our own literacy histories, assumptions, values, and beliefs; consider our responsibilities as citizens with access to culturally valued literacies; and strive to articulate a cogent personal position as literacy sponsors. Students should plan on completing 10 hours of on-site community-based learning.
- SRP 439 Literacy and Technology: How Technology Shapes Cultural Literacy** (3) OD (Same as ENG 439)  
Students will explore the ways that literacy, technology, and humanity interact. Students will look at the ways that each of these entities affects the others. The course will begin with a historical look at human technological literacy, but the majority of the course will focus on present literacy and technology.
- SRP 440 Liturgy, Music, and the Transformed Life** (3) OD (Same as MUS 440, THL 440)  
A study of the historical development of the relationship between the Eucharist and liturgical music. The class will study how the liturgy (Eucharist, scripture reading, music, and architecture) intends the transformation of the assembly into a moral, virtuous, and just community.
- SRP 444 Non-Violence and Peaceful Resolution of Conflict: Cross-Cultural and Political Perspectives** (3) OD (Same as ANT 444, JPS 444, PLS 444)  
Peace is more than the absence of war. Course seeks to understand differing views of peace, violence, war, non-violence, and peaceful resolution of conflict. Students assess their views on alternatives to violence and apply differing modes of conflict resolution.
- SRP 448 Freedom and Security in a Digitally-Divided Society** (3)  
The concepts of Freedom and Security take on global implications when applied to the Cyber world. This course examines how power is gained and waged through computer technology, and how Freedom and Security are moral banners for the promulgation of this power. The student will gain knowledge and experience regarding how public and private sector governments and military institutions implement offensive and defensive Cyber strategies, countered with strategies and tactics waged by loosely-organized ?freedom-fighters.? The student will then be invited to apply the effects of this struggle to the problem of the Digital Divide. **P: Sr. stdg.**
- SRP 452 Science, Media, and Risk** (3) OD (Same as JMC 452, EVS 452, PHL 452)  
This course examines how science determines environmental and biotechnological risk, how media communicate these risks, and how the public understands risk. The course explores the use of values (as well as the values used in specific cases) by each stakeholder to determine what kind of risk is acceptable. It also explores ethically acceptable deci-

sion-making processes, including making the public voice more a part of that process. The course involves reading and discussion online prior to a week-long intensive international workshop during the summer on the issues in Borgholm, Sweden. The course continues on-line after the summer school experience, culminating in a writing assignment tailored to the student's skill development and academic /career interest.

- SRP 455 Food, Society, and Environment** (3) OD (Same as ANT 455, EVS 455, SOC 455)  
Access to food is a universal, basic human need. This course considers, from several disciplinary perspectives, the social and cultural significance of food, the ecological implications of producing it, and the social justice issues that surround its distribution.
- SRP 457 Biomedical Ethics: Philosophical and Theological Approaches** (3) OD (Same as HAP 457, PHL 457, THL 457)  
An exploration of relations between philosophical and theological conceptions of ethics and moral methodologies, together with an application of the latter to select issues in biomedicine and health care policy.
- SRP 458 Theology and the Vocation to Health Care** (3) (Same as THL 458)  
Health care in the United States is both big money and arguably the most important social justice issue in contemporary society. This course will offer an opportunity for students at Creighton to discern whether or not they are called to the vocation of caring for others through medicine, dentistry, pharmacy, physical and occupational therapy, nursing or emergency medical services.
- SRP 465 Faith and Political Action** (3) OD (Same as PLS 465)  
Challenges students to understand theological and political science perspectives on social policy issues and the work of religious-based organizations in politics. Course includes 20 hours of work with a community partner during the semester.
- SRP 468 Christianity and Power: A Russian Case Study** (3) OD (Same as PLS 468, THL 468)  
Challenges students to consider the link between religion and politics. Starting from the assumption that politics is fundamentally about the competition of ideas, it considers the ideals of Russian Orthodoxy and measures them against the goals and actions of the Russian state.
- SRP 469 Psychological and Theological Approaches to Vocation** (3) (Same as PSY 469, THL 469)  
This course examines the concept of vocation from an interdisciplinary perspective using insights from psychology and theology. Research and theory from the fields of personality, motivation, and social psychology are complimented with the theology of the Incarnation, Ignatian spirituality, and relevant texts from four historical periods of Christianity.
- SRP 475 Multiculturalism: History, Philosophy, Literature, and Education** (3) OD (Same as PHL 475)  
An intensive examination of the theory (and practice) of multiculturalism, this course will consider historical, philosophical, literary, and educational perspectives on the encounter between different cultures, and their relevance for the contemporary world.
- SRP 481 Poverty, Development and Public Policy** (3) AY (Same as PLS 481)  
Course explores in an international and comparative way the multi-dimensional nature of poverty, including such factors as political powerlessness, physical and social isolation, racial and gender discrimination and economic systems. Ethical issues regarding these are explored.
- SRP 482 Race in America: Idea and Reality** (3) OD (Same as AMS/BKS/HIS/PHL/PLS 482)  
An examination of the idea and reality of race during key phases of U.S. history, with an emphasis on the contemporary situation. To understand the multiple meanings and experiences of race, the course draws on sources from science, literature, law, and philosophy.



**SRP 488 Personal and Spiritual Dimensions of Leadership** (3) OD (Same as COM 488, EDU 488, THL 488)

The purpose of the course is to give students the opportunity to engage in introspection and examination of their personal belief and value systems related to leadership. The course begins from the assumption that leadership is “a journey that begins within” and examines the relationship between leadership theory and Christian spirituality. Biographical examples will be analyzed; biographies will be drawn from diverse fields such as health, science, business, government, sports, and education.

## ***SOCIAL WORK***

*For the Social Work Program of Study, please refer to page 176.*

**SWK 261 Introduction to Social Welfare** (3) I, II

This course is designed for students interested in the helping professions as it examines societies response to problems such as poverty, diversity, and child welfare. Students not only explore the profession of social work but its interface with other disciplines such as health care, psychology and education. Restricted to freshmen, sophomores, and juniors.

**SWK 262 Introduction to the School System** (1) I

The course introduces students to the concepts, theories, and practice of school social work in the elementary, middle, and high school levels. An overview of the history and development of school social work is presented in lecture and interactive group discussions. Additionally, a field experience with a practicing school social worker is required and arranged by the instructor. **P: SWK 261.**

**SWK 274 Introduction to Working with Children** (3) I

Definition and description of child welfare as a field of practice. Child welfare problems are examined from the perspective of remedial services. **P: SWK 261.**

**SWK 275 Human Behavior and the Social Environment** (3) I

Examination of the relationships among human biological, social, psychological, and cultural systems as they affect and are affected by human behavior as it relates to social work practice: focus on individuals, families, small groups, formal organizations and communities. **P: PSY 111; SOC 101 or IC. CO: SWK 261; BIO 149.**

**SWK 276 Human Behavior and Social Environment II** (3) II

Overview of course: This online course is the second in a two-semester sequence in which students examine the dynamic interaction between individuals and their environments, focusing on small groups, organizations, and communities. The course utilizes a critical perspective to assess the application of social systems theory, theories of social interaction, and other theories used in macro social work practice. Infused throughout the course is an appreciation of human diversity. **P: SWK 261, SWK 275.**

**SWK 299 Addictions: Substances, Processes and People** (3)

Selected addiction theories and treatments are reviewed including substance addiction (alcohol, drugs), process addiction (gambling, sex, food, internet), and relationship addictions. Students examine the role of social workers, other professionals and friends in recognizing and managing addictive behaviors, and explore their own beliefs and values using a systems perspective.

**SWK 300 Economics, Politics and Social Welfare** (3) II

This course examines the structure, function and interaction of economics, politics and social welfare. Fundamental study into the nature and scope of U.S. economics and political systems as they affect the theory and practice of social welfare.

**SWK 335 Federal Indian Policy and Law** (3) (Same as AMS 335, NAS 335, PLS 335)

Investigates the relationships between Native American and Euro-Americans in terms of how the Natives were perceived and the impact this has had on Colonial and Federal policies relating to Native populations. Emphasis is on the historical, political and cultural aspects of the relationship. **P: So. stdg.**

**SWK 339 Public Policy and Poverty in the United States** (3) AY (Same as AMS 339, PLS 339)

Government policies and programs affecting the poor in the United States. Issues include various elements of welfare programs and policies, entitlement programs such as Medicare

and Social Security, problems of intergovernmental activity in administering social welfare. Examination of various critiques of social welfare policy and a review of reform proposals. Role of organized interests and public support relative to programs affecting the poor. Skill development includes policy formulation and analysis. **P: So. stdg.**

- SWK 345 Basic Social Work Skills for Generalist Practice (4) I**  
Introduction to the ethical and theoretical base from which generalist social workers practice. Brief overview of the methods employed by social workers providing services. **P: SWK 275; or IC; SWK major.**
- SWK 365 Issues of the Native American Experience (3) I, S (Same as AMS 365, NAS 365)**  
Examination of Native American culture and values, social institutions and social systems. Presentation of issues emanating from being Native American. Consideration given to understanding the Native American experience from an historical perspective as well as the contemporary viewpoint. **P: So. stdg.**
- SWK 366 The Status of Women: Progress and Process (3) II (Same as WGS 366)**  
Examines the historical, social, economic and political content of women's issues. Explores concepts of feminism and sexism in contemporary society. Current social issues will be examined in relation to present and future generations of women. **P: Jr. stdg.**
- SWK 369 Insurance Coverage for the Health and Human Services (1) I**  
Course is intended to survey the range of public and private insurance opportunities specifically focusing on insurance for the poor. Emphasis is on implementation of insurance and policy guidelines, eligibility, requirements, and application processes. The course is intended for health and human service professionals including social workers, nurses, and other mental health professionals. **P: SWK 261.**
- SWK 371 Social Work Issues (3) I**  
Social work issues are examined in terms of both their historical development and their implications for current social work practice. Topics vary from semester to semester.
- SWK 375 Working With the Elderly (3) II**  
Presentation of information concerning the theory and practice of social services to the aged. Study of both institutional and community settings.
- SWK 376 Family Violence (3) II**  
An exploration of the problem of family violence in American society. Issues raised by violence on the family examined from the legal, social welfare and criminal justice perspectives.
- SWK 377 Social Work with Individuals and Families (3) II**  
Provides basic knowledge of theory and practice skills for intervention by social workers with individuals, families, and small groups. **P: SWK 345 or IC; SWK major.**
- SWK 401 Social Welfare Policy (3) II**  
Examines the process of social policy development with a focus on the more vulnerable populations. Social policy will be placed in a historical and a social context. Includes skills needed for policy formulation and analysis. **P: SWK 261, SWK major (For SWK 300 students may substitute either PLS 101 or PLS 121 and either ECO 203 or ECO 205).**
- SWK 409 Race and Gender Relations: Moral and Ethical Dilemmas (3) S (Same as ANT/SRP/WGS 409)**  
This course explores the multiple-faceted experience of being a person of color, a specific gender and immigrants in the United States. Institutional forces (economic, educational, familial, political and social welfare) are examined that influence the structure and status of persons of color, immigrants and women and men. Emphasis is understanding the diversity of the United States and the connections between and among race, gender and class and their complexity. Ways to better understand and interact are presented in addition to ways to foster social change. **P: PHL 250 or THL 250; Sr. stdg.**
- SWK 422 Children of Poverty: An Interdisciplinary Perspective (3) S (Same as SRP 422)**  
An interdisciplinary course addressing a variety of issues concerning children of poverty in America including policy, justice, and ethical issues related to economics, health, law, mental health, family, housing, and education. **P: Sr. stdg.**
- SWK 429 Social Work with Groups (3) I**  
Introduces students to the theory, concepts and experience in the development of group

dynamics and effective group skills. Stresses development of practice skills and strategies to achieve effective group facilitation. **P: SWK 345 or SWK major.**

- SWK 433 Introduction to Working With Adolescents (1) I, II**  
This course is designed to offer students a basic understanding of the adolescent stage of development. The course examines changes during adolescence, how these changes impact the individual, the family, and the broader social context in which adolescence occurs. Exploration of cultural and gender differences as it relates to this life stage, and how these variables impact our understanding of adolescence. Selected clinical approaches and therapeutic modalities are presented. **P: SWK 261.**
- SWK 460 Field Practicum Seminar I (3) I, II**  
Seminar designed to integrate theories and skills learned in the classroom with their application in field experience. **P: SWK 345; Sr. stdg. CO: SWK 429, 461; SWK Major.**
- SWK 461 Field Practicum I (4) I, II**  
Students are placed in community agencies delivering social welfare services for practical application of the theory and skills acquired in the classroom. On-site supervision provided by the agency and group supervision provided on campus. **P: SWK 345, Sr. stdg. CO: SWK, 429, 460; SWK Major.**
- SWK 473 Social Work with Organizations and Communities (3) II**  
Provides basic knowledge of social work intervention at the organizational community level. Study of procedures and skills in community organizing and developing and implementing programs. **P: SWK 345 or IC; SWK Major.**
- SWK 477 Social Work Management and Supervision - Strategies and Techniques (1)**  
Designed to enable students to understand the knowledge base required for organizational management and to apply it in a manner consistent with social work values. Theory application and administration/supervisory skill building within human service non-profit social work settings are examined and applied. **P: IC.**
- SWK 480 Field Practicum Seminar II (1-3) I, II**  
Seminar designed to integrate theories and skills learned in the classroom with their application in field experience. **P: SWK 460, 461; Sr. stdg. CO: SWK 481; SWK Major.**
- SWK 481 Field Practicum II (4) I, II**  
Students are placed in agencies delivering social welfare services for practical application of the theory acquired in the classroom. On-site supervision provided by the agency and group supervision provided on campus. **P: SWK 460, 461; Sr. stdg. CO: SWK 480; SWK Major.**
- SWK 493 Directed Independent Readings (1-6) I, II, S**  
Survey of literature related to a topic in social work not covered in student's course work. Undertaken in close cooperation with a supervising faculty member. May be repeated to a limit of six hours. **P: Sr. stdg.; SWK Major; DC.**
- SWK 495 Directed Independent Study (1-6) I, II, S**  
Student-initiated project on a focused topic in social work, utilizing library materials and involving close cooperation with a supervising faculty member. May be repeated to a limit of six hours. **P: Sr. stdg.; SWK Major; DC.**
- SWK 497 Directed Independent Research (1-6) I, II, S**  
Student-initiated empirical project on a focused topic in social work, involving close coordination with a supervising faculty member. May be repeated to a limit of six hours. **P: Sr. stdg.; SWK Major; SOC 212; DC.**
- SWK 501 Conducting Needs Assessments and Social Programs (1) OD**  
The purpose of this course is to provide beginning skills in planning and conducting needs assessments to determine whether there is sufficient need to justify the funding of a new human service program. The course is designed to guide students step-by step through the needs assessment process, from understanding the purpose and goals of the needs assessment to collecting, analyzing, and disseminating information so that decisions can be made about developing and/or funding programs.

- SWK 505 Methods and Strategies for Working with Families and Support Personnel for Exceptional Children and Youth (3) I, II, S (Same as EDU 505)**  
Course designed to address the needs of families of exceptional children and youth and train the support personnel who work with exceptional children. **P: EDU 501; Jr. stdg.**
- SWK 511 Grant Writing (1) OD**  
The course focuses on teaching beginning skills in grant writing. Students will have an opportunity to apply problem solving knowledge to the development of a social service grant. Students may bring grants they are working on or they may complete a “training” grant during the course.
- SWK 521 Program Evaluation for Non-profit Organizations (1) OD**  
Evaluating the success of a program or policy is important to non-profit and public social service agencies. The purpose of this course is to help students create a program evaluation plan for a social welfare program or policy. Students will use the problem-solving process to evaluate whether a program or policy is meeting its goals or needs modification in order to accomplish its objectives.
- SWK 571 Working With Troubled Families (3) S (Same as COU 571, EDU 571)**  
Designed to give participants an understanding of family dynamics; why troubled families remain troubled; how intervention can help a family overcome its difficulties. Theoretical presentations and exercises relating to these presentations with opportunities for class discussion of both. **P: Jr. stdg.**
- SWK 573 Mediation and Conflict Resolution for Health and Human Service Professionals (3) S**  
Inevitably in the practice of health and human services professionals are called upon to address conflict. However, for many professional conflict produces both personal and professional challenges. This course is designed to identify the elements of social conflict focusing on a variety of theoretical approaches for conflict resolution and to develop skills appropriate in a variety of professional settings. In addition, participants explore their own dominant mode of handling conflict and discuss discipline specific opportunities for application of a model. This course also explores cultural and gender aspects of resolving conflicts. Finally, participants are introduced to advances and innovations in conflict resolution. **P: Jr. stdg.**

## ***SOCIOLOGY***

*For the Sociology Program of Study, please refer to page 178.*

- SOC 101 Self and Society (3) I, II, S**  
Human beings live out their lives in a multitude of social relationships ranging from personal relationships to citizenship in the global community. In a very real sense, persons are fully human only within the context of their connectedness to others. This course explores the meaning of this connectedness by considering four basic questions: (1) How is social life organized? (2) What consequences does this social organization produce? (3) How does this social organization change over time? (4) What does this organization, its consequences and changing nature, have to do with the lives of individuals?
- SOC 200 Special Issues (1-3) OD**  
Topics of special interest. Course will be subtitled in the Schedule of Courses. Course may be repeated under different subtitles. **P: So. stdg.**
- SOC 205 American Family Issues (3) I, ENY (Same as WGS 205)**  
Systematic examination of the history of American families and contemporary changes affecting and taking place within today’s families. Attention is directed to in-depth consideration of four or five major issues, such as divorce, single-parent families, family violence, reproductive dilemmas, dual-worker families, etc.
- SOC 209 Qualitative Methods in the Social Sciences (3) II, S (Same as ANT 209, NAS 209)**  
Introduction to qualitative research methods within the social sciences. Includes research design, strategies for collecting ethnographic data with a particular focus on participant observation and field work, comparative research, theory building, and ethical issues involved with human research.

- SOC 212 Quantitative Methods in the Social Sciences (3) I** (Same as ANT 212, HAP 212)  
Introduction to quantitative research methods within the social sciences. Attention is directed to the basic logic and research techniques involved in studying the social world scientifically. Specific topics considered include research design, measurement, alternative data collection procedures, and ethical concerns involved in studying social life.
- SOC 214 Statistics for the Social Sciences (4) II** (Same as ANT 214)  
Broad introduction to the statistical techniques used by social scientists to analyze their data, including computer usage. Attention is directed to the basic procedures for organizing and describing data, for assessing relationships among social variables, and for using that information to make inferences about the population. 3R, 1L. **P: SOC 212.**
- SOC 215 Sociology of Health Care (3) I** (Same as HAP 215)  
Study of the relationship between society and health care systems. The sociology of health-care organization, including patient-practitioner relationships, concepts of health and disease, healthcare personnel, and systems of delivery.
- SOC 223 Social Problems: Values, Issues and Public Policy (3) I**  
Social problems in contemporary American society. Focus on public issues, controversies, and policy alternatives.
- SOC 295 Special Projects (3) OD**  
Subject matter and method to be worked out individually. **P: So. stdg.**
- SOC 301 Social and Cultural Theory (3) I** (Same as ANT 301)  
An exploration of the ideas central to sociology and anthropology from the perspective of their historical and contemporary theories. Special attention is given to the implications of these ideas for understanding human social values. **P: So. stdg.**
- SOC 307 Demography: World Population Issues (3) I** (Same as AFS 307, ANT 307, EVS 307)  
This course will provide a sociological examination of the development and evolution of different models of population dynamics from several contemporary cultures. It will place particular emphasis on the assumptions and logical consequences of each of these models. Includes a survey of historical and contemporary trends in population growth, as well as a review of competing perspectives about natural limits to that growth. **P: So. stdg.**
- SOC 309 The Urban Social System (3) I, ENY** (Same as BKS 309)  
Examination of the process of urbanization as it affects the lives and institutions of local populations and incorporates them into much larger national and international systems. **P: So. stdg.**
- SOC 310 Religion and Contemporary American Society (3) OD** (Same as AMS 310)  
An examination of religious beliefs, behaviors, and structures as they relate to contemporary America. In addition to studying established religious forms, attention is also given to the public controversies connected with religion and to new religious movements and trends. **P: So. stdg.**
- SOC 311 Sociology of the Family (3) II, ENY**  
How the structure and dynamics of families affect the life experiences of individuals and how the family itself interacts with forces in the larger social environment. Emphasis on contemporary families with cross-cultural comparisons. **P: So. stdg.**
- SOC 317 Global Health Issues (3) II** (Same as AFS 317, ANT 317, HAP 317)  
This course will examine the social production of health and disease from a global perspective. Related to these issues, is the topic of health and well being in developing countries. **P: So. stdg.**
- SOC 318 Gender in American Society (3) II, ENY** (Same as AMS 318, WGS 318)  
Comprehensive examination of the forces shaping the position and behavior of women and men in modern American society. How and why do these positions and behavior differ? What are the consequences of these differences? Emphasis on gender as enacted across the spectrum of multicultural diversity in American society, with some comparison to other societies. **P: So. stdg.**
- SOC 320 Sociology of Deviant Behavior (3) I**  
A sociological examination of the conditions under which societal definitions of deviance emerge, develop, and change over time. Special attention will be paid to the process of societal reaction to deviant behavior. **P: So. stdg.**

- SOC 321 Sociology of the Criminal Justice System (3) II**  
A survey of the development, modification, and enforcement of criminal law. Special attention will be given to the courts, corrections, and enforcement agencies, and the role of competing values in the decision-making process. In addition to the western legal heritage that has been the principle influence in U.S. criminal law, the perspective of nonwestern traditions of criminal justice will be addressed. **P: So. stdg.**
- SOC 325 Perspectives on Aging (3) II, ONY**  
An introduction to gerontology, the study of human aging. Physical, psychological, and social policy aspects of aging and historical, cross-cultural, and social policy aspects of aging populations are examined. Aging is viewed both as a personal experience and as a social process. Opportunities provided for pursuing personal interests. **P: So. stdg.**
- SOC 331 Industry and Society (3) I, ENY**  
Sociological study of the economic components of society as they relate to the other social institutions. Special attention given to the effects on behavior of specific forms of economic organization, especially those associated with industrialization. **P: So. stdg.**
- SOC 333 Social Psychology (3) OD**  
Drawing upon sociological, psychological, and anthropological data, we attempt to better understand how individuals, through the interaction process, influence and are influenced by the social settings in which they function. **P: So. stdg.**
- SOC 335 Technology and Human Values (3) II, ONY**  
We often fail to recognize how the unanticipated (and often unintended) consequences of technologies change our social systems, including the way we relate to each other. This course will examine how different social systems attempt to control and manage the development of technology, the differential impact of emerging technologies on identifiable segments of society, and the ethical and values-issues involved in technological and social change. Includes an exploration of the impact of complicated technologies on less developed cultures. **P: So. stdg.**
- SOC 341 American Cultural Minorities (3) I (Same as AFS 341, AMS 341, ANT 341, BKS 341)**  
Determinants and consequences of prejudice and discrimination; race, ethnocentrism, religious conflict, class structure. Consideration also given to proposed strategies for reducing inter-group tension. **P: So. stdg.**
- SOC 350 Social Change (3) I, ENY (Same as ANT 350)**  
Major social trends in America and the world.; social change processes and social movements. Special focus on the emergence of a global system of economic, political, and environmental relationships. **P: So. stdg.**
- SOC 355 Environment and Society: Sociological Perspectives (3) II (Same as ANT 355, EVS 355)**  
Human societies interact with the natural environments in which they are embedded. An examination of the driving economic, political, cultural, and demographic forces that cause human modification of the natural world, the resulting social and environmental problems and public controversies. A focus on movements and policies related to environmental issues, and the prospects for the emergence of more environmentally "sustainable" societies. **P: So. stdg.**
- SOC 360 Gender, Society and Culture (3) II (Same as ANT 360, WGS 360)**  
Examines gender from a holistic perspective, including language, biology, cultural history, and socio-cultural variables. The course will examine gender in a wide variety of cultures. **P: So. stdg.**
- SOC 385 Community Internship I, II (3) I, II, S**  
Omaha city government departments and other private and public agencies provide opportunities for semester-long participation in their regular operations. Academic coordination provided by a department faculty member. May be repeated for up to 6 hrs. 1C, 12L. **P: Jr. stdg.; SOC major; IC; 2.5 GPA**
- SOC 400 Topical Seminar in Sociology (3) OD**  
Seminars offered on special topics related to sociology. Topics vary from semester to semester. May be repeated under different subtitles. **P: Jr. stdg.**

- SOC 411 Social Inequality and Stratification (3) II, ONY**  
Nature, causes, and consequences of social inequality and stratification, with particular attention directed to the interaction among class, race and ethnicity, and gender. **P: Jr. stdg.**
- SOC 423 Law and Society (3) II**  
A sociological examination of the development and evolution of models of legal systems from several contemporary cultures, with particular emphasis on the way each of the different models functions, either as a mechanism of social stability or as a mechanism of social change. This will include a survey of civil, criminal, administrative, and commercial issues, and their relationship to other social institutions, as well as a review of efforts to develop legal systems that transcend competing cultures, either by treaty, or by international organizations. **P: Jr. stdg.**
- SOC 440 Gender Communication (3) II (Same as COM 440, WGS 440)**  
Focuses on the similarities and differences in the communicative behaviors of women and men. Lectures, in-class experiential exercises, role-playing, and group discussions devoted to such topics as female-male roles and stereotypes; differences in verbal and nonverbal codes; partnership styles and alternatives; specific communication skills aimed at female-male relationships in a variety of settings (e.g., education, the workplace, the media, etc.); and special problem areas of female-male communication.
- SOC 455 Food, Society, and Environment (3) II (Same as ANT 455, EVS 455, SRP 455)**  
Access to food is a universal, basic human need. This course considers the social and cultural significance of food, the ecological implications of producing it, and the social justice issues that surround its distribution from several disciplinary perspectives. **P: Sr. stdg.**
- SOC 463 Organizational Assessment (3) I (Same as COM 463, EDU 463)**  
Workshop evaluating characteristics of organizations (including schools and service organizations). Practical training in assessing the effectiveness of such interventions as curriculum, training and development, and personnel. Special emphasis on planning, conducting, and interpreting surveys; developing questionnaires, interpreting results, and writing final reports.
- SOC 470 Introduction to Geographic Information Systems (4) II, ENY**  
An introduction to the design, development, and application of geographic information systems (GIS) and related technologies to conduct spatial analysis in applied research settings that require the integration of data from diverse sources. Students will complete individual projects focusing on a topical area of their choice in order to develop an understanding of the basic technologies, and to demonstrate their skill in using these technologies to analyze a research topic. Research topics may be drawn from any subject field for which data sets with geographic variables are available. These may include anthropology, criminal justice, demography, economics, environmental science, health care, marketing, political science, sociology and social work. **P: SOC 212 or IC.**
- SOC 493 Directed Independent Readings (1-6) I, II, S**  
Survey of the literature related to a topic in sociology not covered in the student's course work. Undertaken in close cooperation with the supervising faculty member. May be repeated to a limit of six hours. **P: IC.**
- SOC 495 Directed Independent Study (1-6) I, II, S**  
Student-initiated project on a focused topic in sociology, utilizing library materials and involving close coordination with a supervising faculty member. May be repeated to a limit of six hours. **P: IC.**
- SOC 497 Directed Independent Research (1-6) I, II, S**  
Student-initiated empirical project on a focused topic in sociology, involving close coordination with a supervising faculty member. May be repeated to a limit of six hours. **P: IC.**

## **SPANISH**

*For the Spanish Program of Study, please refer to page 164.*

- SPN 101 Beginning Spanish I (3) I, II**  
Course designed to focus on the essential elements of basic communication (listening, speaking, reading and writing), as well as provide insight into the life and culture of Spanish-speaking

countries.

- SPN 102 Beginning Spanish II (3) I, II**  
Continuation of SPN 101. **P: SPN 101 or equivalent.**
- SPN 113 Beginning Spanish for the Medical Professionals I (3)**  
Fundamentals of the pronunciation and structure of Spanish; practice in speaking, listening, reading and writing with emphasis on vocabulary related to medical situations. Designed for students planning careers in medicine, dentistry, nursing, and pharmacy and allied health but open to all. NOTE: This is an alternative beginning-level course to SPN 101. It is not open to those who have already taken SPN 101 and/or SPN 102, and it is open only to nonnative speakers of the language.
- SPN 114 Beginning Spanish for the Medical Professionals II (3)**  
Continuation of SPN 113. Expansion to more complex sentence structure in speaking, listening, reading and writing with emphasis on vocabulary related to medical situations. Designed for students planning careers in medicine, dentistry, nursing, and pharmacy and allied health but open to all. NOTE: This is an alternative course to SPN 102. It is not open to those who have taken SPN 102, and it is open only to nonnative speakers of the language. **P: SPN 101 or SPN 113 or equivalent.**
- SPN 115 Intensive Beginning Spanish (6) S**  
Course designed to focus on the essential elements of basic communication and develop all four language skills (listening, speaking, reading and writing), as well as provide insight into the life and culture of Spanish-speaking countries. Students who have already taken college Spanish must consult with the department before registering for this course.
- SPN 201 Intermediate Spanish I (3) I, II**  
Course designed to help students make the transition to natural communication and to develop further all four language skills (listening, speaking, reading and writing), by using literary/cultural readings and grammatical exercises. **P: SPN 102 or SPN 114 or SPN 115 or equivalent.**
- SPN 202 Intermediate Spanish II (3) I, II**  
Development of a more advanced ability in reading, speaking, listening, and writing in Spanish. **P: SPN 201 or equivalent.**
- SPN 213 Intermediate Spanish for the Medical Professionals I (3)**  
This course is designed to help students make the transition to natural communication in the context of medical situations and to develop further all four language skills (listening, speaking, reading and writing), through the study of vocabulary, dialogues, readings and grammatical exercises pertaining to health-related professions. **P: SPN 102 or SPN 114 or SPN 115 or equivalent.**
- SPN 301 Spanish for Spanish Speakers I (3)**  
This course is designed for native speakers of Spanish who have an ability to understand and converse in Spanish, who lack formal study of the language and who wish to refine their knowledge and capabilities in this area. This course is intended to develop and/or enhance all four language skills: listening, speaking, reading and writing, taking into account the particular problems encountered by native speakers of Spanish. In addition to language-specific materials, this course will utilize cultural readings from Spanish-speaking authors from the United States and Latin America. **P: Spanish comprehension and speaking ability.**
- SPN 302 Spanish for Spanish Speakers II (3)**  
This course develops and enhances the reading, writing and speaking skills of students who speak and understand Spanish but lack formal training in the language. **P: Spanish comprehension and speaking ability.**
- SPN 311 Advanced Spanish I (3) I, II**  
Development of refined accurate expression in speaking and writing Spanish; selected readings. **P: SPN 202 or equivalent.**
- SPN 312 Advanced Spanish II (3) I, II**  
Development of refined accurate expression in speaking and writing Spanish; selected readings. **P: SPN 311 or IC.**



- SPN 313 Advanced Spanish Conversation (3)**  
Development of oral communication skills through extensive vocabulary building and its practical application. **P: SPN 311 or IC.**
- SPN 314 Communicating in Business (3)**  
Oral and written practice in business communication, developing a business vocabulary, reading of documents and essays relating to business situations, interviewing and translating (English to Spanish/Spanish to English). **P: SPN 311 or IC.**
- SPN 321 Civilization and Culture of Spain (3)**  
The history and culture of Spain from its origins to the present. **P: SPN 311 or IC.**
- SPN 322 Latin-American Culture and Civilization (3)**  
A study of the Latin-American culture from Pre-Columbian times to the present, through its history, art, architecture, music, philosophy and education. **P: SPN 311 or IC.**
- SPN 323 Survey of Latin-American Literature (3)**  
Latin-American literature is studied from the Colonial Period to the present, incorporating some of the most influential writers in Spanish America and giving women authors the representation they merit. Readings include texts from Cristóbal Colón, Sor Juana Inés de la Cruz, Esteban Echeverría, Rubén Darío, Gabriela Mistral, Octavio Paz, García Márquez, Rosario Ferré, Jorge Luis Borges and Luisa Valenzuela. **P: SPN 311 or IC.**
- SPN 325 Introduction to Literary Analysis (3)**  
An introduction to literary analysis with readings from Spanish and Latin-American literature. **P: SPN 311 or IC.**
- SPN 327 Survey of Peninsular Literature (3)**  
Through the reading of selections from Spain's major literary works, this course introduces some of the most important issues in Peninsular social history and analyzes the different perspectives that have evolved with every new literary movement. **P: SPN 311 or IC.**
- SPN 331 Medical Spanish I (3)**  
SPN 331 is one of a two-semester sequence designed for students who have had prior study of Spanish and who wish to have very good communication and writing skills when dealing with Spanish-speaking persons on medical topics. **P: One 300-level SPN course or IC.**
- SPN 332 Medical Spanish II (3)**  
SPN 332 is one of a two-semester sequence designed for students who have had prior study of Spanish and who wish to have very good communication and writing skills when dealing with Spanish-speaking persons on medical topics. **P: One 300-level SPN course or IC.**
- SPN 335 Spanish Practicum (1)**  
Course designed to improve oral and comprehensive skills through face-to-face and online discussions, interviews and oral presentations. Focus will be placed on each of the Spanish-speaking countries, the specific topics being determined mainly by current events. Authentic cultural materials such as newspapers, films, radio and television programs will be examined. Course may be repeated for a maximum of three credits. **P: SPN 202 or IC.**
- SPN 411 Advanced Spanish Grammar, Translation and Composition I (3)**  
A very intensive advanced grammar course designed to revisit at a deeper level and at a faster pace the most complicated and troublesome grammar concepts and idiomatic structures of Spanish. **P: SPN 311 and 312 or IC.**
- SPN 412 Advanced Spanish Grammar, Translation and Composition II (3)**  
A very intensive advanced grammar course designed to revisit at a deeper level and at a faster pace the most complicated and troublesome grammar concepts and idiomatic structures of Spanish. **P: SPN 311 and 312 or IC.**
- SPN 423 Latin-American Feminine Voices (3)**  
The principal objective of this course is to help the student to improve comprehension of Latin-American literary texts and the ability to express this understanding in writing. The course will emphasize vocabulary, linguistic structures, as well as Latin-American cultural aspects and general characterizations. **P: SPN 311 or IC.**
- SPN 493 Directed Independent Readings (1-3)**  
Designed to meet the special needs of majors in Spanish. Limit of three semester hours. **P: IC**

only.

- SPN 496 Independent Study in the Dominican Republic (3)**  
This course offers the students the opportunity to work with faculty guidance on a topic or topics chosen in consultation between the faculty member and the student. This course is limited to students studying in the Dominican Republic. Limit of three semester hours. **P: One 300-level SPN course and IC.**
- SPN 525 Encuentro España (3)**  
An exploration of Spanish culture through city tours, visits to museums, theatre, cinema, concerts, on-site in Madrid, and/or other locals in Spain. **P: IC.**
- SPN 541 Medieval Spanish Literature (3)**  
This course provides an insight to the most important writings of the Spanish Middle Ages and focuses on the three masterpieces of the period (*Mío Cid*, *Libro de Buen Amor* and *La Celestina*), but also emphasizes other poetic genres such as ballads and cancioneros. **P: SPN 323 or SPN 325 or SPN 327 or IC.**
- SPN 542 Golden Age Literature (3)**  
A study of the major literary figures of the Spanish Golden Age (16th and 17th centuries) such as Garcilaso, Quevedo, Cervantes and others. **P: SPN 323 or SPN 325 or SPN 327 or IC.**
- SPN 544 Spanish Peninsular Narrative (3)**  
A study of representative narrative texts from the late 19th and the 20th centuries. **P: SPN 323 or SPN 325 or SPN 327 or IC.**
- SPN 545 Fifteenth-Century Sentimental Novel (3)**  
Analysis of this late medieval genre based on the relationship between lovers who have never had any physical contact. Among various works, *Siervo Libre de Amor* and *La Carcel de Amor* will be examined. **P: SPN 323 or SPN 325 or SPN 327 or IC.**
- SPN 549 Twentieth-Century Spanish Drama (3)**  
Reading and analysis of plays by the following dramatists: García Lorca, Casona, Buero Vallejo and others. **P: SPN 323 or SPN 325 or SPN 327 or IC.**
- SPN 550 Literature of the Colonial Period (3)**  
Study of the major works from Columbus to Juana Inés de la Cruz. **P: SPN 323 or SPN 325 or SPN 327 or IC.**
- SPN 551 Latin-American Novel (3)**  
An introduction to the Latin-American novel, literary movements and techniques focusing on major writers such as García Márquez, Vargas Llosa, Luisa Valenzuela, Isabel Allende and others. **P: SPN 323 or SPN 325 or SPN 327 or IC.**
- SPN 552 The Latin-American Short Story (3)**  
Study of the Latin-American short narrative from the 19th century to the present. Selected stories by Echeverría, García Márquez, Rosario Ferré, Elena Poniatowska, Julio Cortázar, Jorge Luis Borges and others. **P: SPN 323 or SPN 325 or SPN 327 or IC.**
- SPN 553 Contemporary Latino(a) Literature (3)**  
Analysis of works by contemporary authors of Hispanic descent born or residing in the United States. It will include, but will not be limited to, the following authors: Richard Rodríguez, Julia Alvarez, Cristina Garcia, Sandra Cisneros, Roberto Fernandez, Sandra Benitez and Esmeralda Santiago. **P: SPN 323 or SPN 325 or SPN 327 or IC.**
- SPN 554 Twentieth-Century Latin-American Poetry (3)**  
A study of Latin-American poetry from the Vanguardista period to the contemporary scene. **P: SPN 323 or SPN 325 or SPN 327 or IC.**
- SPN 555 Twentieth-Century Latin-American Theater (3)**  
A study of Latin-American theater from the end of the 19th century to the present. **P: SPN 323 or SPN 325 or SPN 327 or IC.**
- SPN 556 Understanding the Latin American Boom (3)**  
Analysis and reflection on works by authors known as the Latin-American "Boom" writers who elevated Latin-American Literature to the stature of international recognition and prestige. The course will include, but will not be limited to, the following authors: Alejo Carpentier, Jorge Luis Borges, Julio Cartázar, Juan Rulfo, Carlos Fuentes, Gabriel Garcia Marquez, José

Donoso and Mario Vargas Llosa. **P: SPN 323 or SPN 325 or SPN 327 or IC.**

- SPN 557 Contemporary Spanish Poetry (3)**  
A selection of works and styles of the 19th and 20th centuries. **P: SPN 323 or SPN 325 or SPN 327 or IC.**
- SPN 558 Staging the Revolution: Oppression and Social Change in Hispanic Theater (3)**  
This course offers an in-depth exploration of the role theater plays in social change. Through the readings of essays by theater visionaries and the study of theater from times of revolution and social upheaval from several different countries from the Hispanic world, students will garner an understanding of how, and if, theater participates in the process of social change. We shall discuss how theater differs from other literary genres in creating an atmosphere of change. Students will examine how creators of theater reach people and inspire social change through their work. We shall also investigate how theater reflects the changing world. **P: SPN 323 or SPN 325 or SPN 327 or IC.**
- SPN 561 The Generation of 1898 (3)**  
Reading and analysis of the major works of the following novelists and nonfiction writers: Unamuno, Valle-Inclán, Baroja and Azorín. **P: SPN 323 or SPN 325 or SPN 327 or IC.**
- SPN 564 History of the Spanish Language (3)**  
This course will present the development of the Spanish language, using linguistic methodology and representative texts. **P: SPN 311 or IC.**
- SPN 568 Multicultural Spain Through Letters, Politics, Theater and Film (3)**  
This course offers an in-depth examination of the cultural plurality of Spain. Through a variety of texts including, but not limited to, short stories, plays, political manifestos, essays, poetry, music, performance and film, students will explore how different art forms contribute to the concept of national identity or national identities from around Spain. The focus will be on 20th Century works. Additional readings will be placed on reserve in the library and be assigned alongside the primary texts for the course in order to contextualize our studies. **P: SPN 323 or SPN 325 or SPN 327 or IC.**
- SPN 571 Latinos in the Movies (3)**  
This course offers a panoramic view of contemporary films from and about the Latino/a world. Through the viewing of movies and the reading of contextual and theoretical information students will explore how film can be considered a legitimate art form that contributes to an ongoing cultural dialogue. **P: SPN 323 or SPN 325 or SPN 327 or IC.**

## STATISTICS

- STA 493 Directed Independent Readings (Credit by Arrangement)**  
May be repeated to a limit of six hours.
- STA 495 Directed Independent Study (Credit by Arrangement)**  
May be repeated to a limit of six hours.
- STA 497 Directed Independent Research (Credit by Arrangement)**  
May be repeated to a limit of six hours.
- STA 499 Senior Thesis: Supervised Consulting (Credit by Arrangement)**  
May be repeated to a limit of six hours. **P: DC.**
- STA 513 Probability and Statistics in the Health Sciences (3) I (Same as MTH 513)**  
This course covers topics in probability and statistics considered useful to those students planning on a career in the health sciences. The topics covered include probability principles and distributions in health sciences, types of epidemiologic study designs, estimation of medical parameters in defined patient populations, test of hypothesis, measures and analysis of treatment of the sick, analysis of variance, methods of medical outcome prediction, and prospective, retrospective and cross-sectional studies of disease occurrence. **P: MTH 201 or MTH 245.**
- STA 521 Computational Methods in Statistics (3) OD**  
Use of packages of statistical programs, calculation of statistical tables, Monte Carlo methods. **P: A course in statistics; CSC 221.**
- STA 525 Nonparametric Methods (3) OD**  
Applications of nonparametric estimates, confidence, intervals, tests, and multiple comparison

procedures. **P: A course in statistics.**

- STA 527 Sample Surveys (3) OD**  
Simple, systematic, stratified, and cluster random sampling; proportions; ratios; selection of sample size. **P: A course in statistics.**
- STA 561 Mathematical Statistics I (3) I (Same as MTH 561)**  
Introduction to probability and probability distributions including techniques for finding expected values and variance of discrete and continuous variables. These distributions and their properties are examined to establish their application to applied statistical methods. **P: MTH 246.**
- STA 562 Mathematical Statistics II (3) II (Same as MTH 562)**  
Using probability distributions as a foundation and random sampling, methods for estimating distribution parameters are developed with applications to hypothesis testing. The course also includes an introduction to linear models, regression analysis, analysis of variance and design of experiments. **P: STA 561.**
- STA 563 Mathematical Statistics III (3) OD (Same as MTH 563)**  
Optimal decision procedures, further normal distribution theory, noncentral chi-square and F distributions, introduction to the theoretical basis for analysis of variance, nonparametric methods. **P: STA 562.**
- STA 567 Linear Statistical Models (3) OD**  
Least squares method; general linear hypothesis; multiple correlation and regression; analysis of covariance. **P: STA 561; MTH 529.**
- STA 569 Analysis of Variance and Design of Experiments (3) OD**  
One- and two-way classifications; blocking; nesting; multiple comparisons; incomplete designs; variance components; factorial experiments; confounding. **P: STA 561.**
- STA 571 Linear Programming (3) OD (Same as MTH 571)**  
Introductory course in operations research. Linear models and solutions using the simplex method, duality theory and sensitivity analysis. **P: MTH 529.**
- STA 573 Probabilistic Models (3) OD**  
Queuing theory, inventory theory, Markov processes, simulation, and nonlinear programming. **P: STA 561.**
- STA 575 Introductory Stochastic Processes (3) OD**  
Random walk, normal processes and covariance stationary processes, counting processes and Poisson processes, renewal counting processes, discrete and continuous parameter Markov chains. **P: STA 561.**
- STA 577 Applied Multivariate Analysis (3) OD**  
Inference about mean vectors and covariance matrices, canonical correlation, principal components, discriminant analysis, cluster analysis, computer techniques. **P: STA 563, 567.**
- STA 579 Applied Time Series Analysis (3) OD**  
Forecasting; Box-Jenkins models; time series; regression; exponential smoothing; transfer function models; auto covariance functions. **P: STA 561.**

## ***THEATRE***

*For the Theatre Program of Study, please refer to page 146.*

- THR 121 Oral Interpretation of Literature (3) I, AY**  
Study of prose, poetry and drama, including analysis and preparation for performance before an audience. Selections are to be acted, interpreted, and produced.
- THR 131 Acting I (3) I, II**  
Stage deportment, pantomime, voice, and methods of character development. Includes performance of scenes in laboratory sessions. Students encouraged to try out for roles in University Theatre productions. No previous acting experience required. Required of all THR majors.

- THR 151 Production Practicum** (1-2) I, II (Same as DAN 151)  
Course is divided into two segments. *Course description for segment one, Technical Crew:* Technical crew work in Creighton theatre and dance productions; may include set construction, properties, sound, lighting. Per credit hour, course requires three hours of shop work weekly (time scheduled with permission of instructor) and working one production as a crew member. *Course description for segment two, Costume Crew:* Costume construction for Creighton theatre and dance productions. Per credit hour, the course requires three hours of costume shop work weekly (time scheduled with permission of instructor) and working one production as a wardrobe crew member. This course may be repeated to a limit of four semester hours.
- THR 153 Stagecraft I** (3) I (Same as DAN 153)  
Fundamentals of developing the scenic background for theatrical productions. Introduction to tools and equipment through theory, lecture, and demonstration. This class includes a lab component. 1 R, 3 L. Required of all Theatre majors.
- THR 154 Costume Construction** (3)  
Fundamentals of developing the costumes and accessories for theatre production. Introduction to equipment and supplies of the costumer's craft through lecture and application. Includes lab hours.
- THR 161 Theatre Appreciation** (3) I or II, AY  
Investigation of the nature of the theatrical experience and the ways in which the other arts contribute to the composite art of theatre. Includes attendance at theatrical productions.
- THR 215 Makeup Design** (3)  
An introduction to the methods of theatrical makeup design and application. Conducted in both a lecture and lab format.
- THR 217 Movement for Actors** (3) (Same as DAN 217)  
A study of dance forms relating to the theatre including warm-up, tap, jazz, musical theatre, ballet, African dance and improvisation. The course is designed to help achieve the widest range of physical and emotional expression through the body in relation to the space around us.
- THR 223 Basic Television Studio Production** (3) I  
Concentration on the basic directing and producing process involved in creating a television production. "Live" studio experiences will be used to develop these skills and knowledge.
- THR 253 Drafting I** (3) OD  
An introduction to the language of mechanical drawing in the theatre through hand drafting and computer-aided drafting (CAD). **P: THR 153.**
- THR 271 Voice Class** (3) I, II, S (Same as MUS 271)  
The techniques of singing, including voice placement, tone production, breathing, and English diction. Individual attainment in a class setting will be emphasized. May be repeated for credit to a limit of six hours. No prerequisite required.
- THR 295 Special Projects** (1-6) I, II  
For the non-Theatre major. Requires a University sponsor and written DC and IC.
- THR 323 Classical Greek Drama** (3) I (Same as CNE 323)  
Selected works of Greek Tragedians. The influence of Greek drama on English literature and on modern drama.
- THR 328 Acting for the Camera** (3) OD  
Methodology and application of acting scenework before a camera rather than a live audience. Course will investigate the mediums of television, film and video acting. **P: THR 131 or IC.**
- THR 330 Acting II** (3) I, II, AY  
This course will refine the student's awareness of the fundamental skills of acting and aid the student in developing a personal acting approach. It will introduce students to method acting and advanced scenework with an emphasis on action and characterization. Students will continue advanced scenework in audition preparation and in dialogue scenes. **P: THR 131.**
- THR 331 Acting Styles** (3) II, AY  
Study of styles of acting from historical periods, Greek to modern, including individual projects in characterization. **P: THR 131 and 231 or IC.**

- THR 333 Improvisational Theatre (3) I or II AY**  
Training to develop the student's creativity and spontaneity. Ensemble creation of theatre performance pieces. **P: THR 131 or IC.**
- THR 335 Audition Technique (3)**  
Instruction on the art of auditioning for the stage. Students will build a repertoire of audition selections and create acting resumes and portfolios.
- THR 341 Play Direction and Script Analysis I (3) I**  
Theory and practice of play direction utilizing lecture, outside reading, discussion and experimentation with production of scenes in class. Course necessary for any production of plays in the one-act festival; also recommended for secondary teachers who may be required to produce plays. Required of all Theatre majors. **P: THR 131, 153 or IC.**
- THR 342 The Art of Television Directing (3) II**  
It is no easy task to pay equal attention to both the creative and the technical sides of television production. The person that must accomplish this task is the TV director. This course will help students learn to think, plan and evaluate the TV directing process. Scenarios will focus on "live" directing experiences, which will develop this knowledge.
- THR 350 Stagecraft II (3) OD**  
Introduction and uses of new materials in stagecraft, mechanical and perspective drawing, scene painting, special effects and problems in advanced technical application. Lecture and laboratory. **P: THR 153.**
- THR 351 Scene Design I (3) OD**  
Principles of scenic art through practical application of the elements. Required of Theatre majors with a concentration in Technical Theatre. **P: THR 153 or 254 or IC.**
- THR 355 Lighting Design I (3) (Same as DAN 355)**  
An introduction to the fundamentals of lighting theory, electricity, color in light, tools, equipment and paperwork through lecture and practical application. Lecture and laboratory. **P: THR 153.**
- THR 357 Costume Design I (3) OD**  
Principles of costume design, color, rendering techniques and dramatic analysis. **P: IC.**
- THR 428 Film and the Fine Arts (3) OD (Same as ART 428, SRP 428)**  
Film as an art form and its relationship to art history, music, and theatre history; the history of styles of acting, design, music, and art in film in the 20th century. Criticism of film art. Course requirements include discussion, examinations and critical writing. Extensive use of the Internet. **P: PHL/THL 250 and Sr. stdg.**
- THR 432 Actor's Lab (3)**  
Special studies in acting technique. Could include pantomime, voice and dialects, Shakespearean or other acting styles. Topics to be announced in the Schedule of Courses. May be repeated to a limit of six hours.
- THR 441 Play Direction and Script Analysis II (3) I, AY**  
Advanced problems in play direction and comparative study of the methods and achievements of major modern directors. Students will direct a one-act play or comparable project for public performance. **P: THR 341 or IC.**
- THR 451 Scenic Design II (3)**  
Advanced projects in scene design with an emphasis on analysis and concept development. Advanced rendering and model building techniques and presentation of the design will also be stressed. **P: THR 351.**
- THR 453 Drafting II (3)**  
Advanced techniques in hand drafting and computer aided drafting. Three-dimensional renderings, section and alternate views, production organization, details, and construction views will be covered in the class. **P: THR 253 or IC.**
- THR 455 Lighting Design II (3)**  
Study of advanced lighting techniques. Students will develop lighting designs, light plots and cue sheets for a variety of theatre and dance productions. **P: THR 357 or IC.**
- THR 457 Costume Design II (3)**  
Advanced projects in designing for drama, musical theatre, opera and dance with an emphasis

on character development through costume and support of production concept. Advanced rendering techniques and portfolio preparation will be stressed. **P: THR 357 or IC.**

- THR 458 Performance, Directing and Production Lab (3)**  
The focus of this course is to offer upper level students the opportunity to continue to develop and improve their techniques and knowledge in television performance, directing and production. This will be accomplished by having the students develop and produce TV programs on a regular schedule. May be repeated to a limit of six hours.
- THR 461 American Theatre History (3) OD**  
Development of theatre in the United States from the colonial period to the present. Consideration of all aspects of theatre, playwriting, architecture, set design, acting and directing. Readings assigned in plays representative of professional theatre in each era.
- THR 465 Theatre History (5th Century, B.C.-1700) (3) I, AY**  
Introduction to the study of theatre history aids application for theatre artists. Includes awareness of patterns of history and the relationship between theatre and society. Origins of theatre: Greek and Roman theatre; theatre in the Middle Ages; the Italian, English, Spanish, and French theatre up to 1700. Required of Theatre Majors. **P: THR 131 or IC.**
- THR 466 World Theatre History (1700-Present) (3) II, AY**  
Continuation of THR 465. Required of Theatre majors. **P: THR 465 or IC.**
- THR 491 Production for Majors (1-3)**  
All theatre majors are required to register for at least one hour of THR 491 in their Junior and Senior years. Enrollment in this course requires the student to contribute a minimum of 180 hours per academic year toward Creighton productions. All areas of theatre, dance and music directly related to a Creighton production are counted toward the total involvement hours. May be repeated to a max of 4 credits. **P: THR 131, 153 and two more core courses.**
- THR 493 Internship in Theatre (1-3) S, OD**  
Practical experience in a student's chosen field of production. The internship will be done in conjunction with an organization approved by the theatre faculty. The student will be required to submit an internship proposal to be approved by their theatre advisor prior to enrolling for this course. **P: DC.**
- THR 495 Directed Independent Study (1-3) I, II**  
Directed study in theatre to meet the individual needs of the student. No more than six hours of Theatre 495 may be taken for credit toward a degree. May be repeated to a limit of six hours. **P: Jr. stdg.; Six hours 200-level theatre courses; IC.**
- THR 499 Senior Thesis (1-3) I, II**  
Students are expected to initiate and develop a project in one of the following areas: acting, directing, design or research. Application must be made to the thesis advisor and the department within the first two weeks of preceding semester. Required for B.F.A., Major in Theatre with both Performance and Technical Track. **P: Sr. stdg.; IC; DC.**
- THR 510 Television Production Workshop (3) S**  
This course is designed to give the participants an overview of the various types of television production. Production "experiences" from multi-camera situations, single camera Electronic Field Production, to basic video editing with i Movie II will be covered.

## ***THEOLOGY***

*For the Theology Program of Study, please refer to page 182.*

- THL 100 Christianity in Context (3) I, II**  
The study of religion as a universal human phenomenon and of Christianity within that context. Within that framework, students will be challenged to situate their own appropriation of faith.
- THL 201 Reading the Old Testament (3) I, II**  
Survey of the literature, history, and religion of the Old Testament. **P: THL 100; So. stdg.**
- THL 202 Creation and Apocalypse (3) I, II**  
The comparative examination of biblical creation myths and their appropriation in historical,

cultic, and prophetic settings **P: THL 100; So. stdg.**

- THL 203 Biblical Ancestors and Heroes (3) I, II**  
Examination of the story of ancient Israel through the lens of its major figures. Emphasis on their role as literary and social figures. **P: THL 100; So. stdg.**
- THL 205 Sickness, Disability, and Healing in the Bible (3) I, II**  
Introduction to critical interpretation of the Bible through a focus on select texts of the Hebrew Bible/Old Testament and the New Testament; exploration, in cultural context, of the experience and understanding of sickness, disability, and healing in ancient Israel and early Christian communities; attention to the theological problem of sickness and disability and to the role of healing and exorcism in the diverse christologies of the Gospels. **P: THL 100 and So. stdg.**
- THL 207 Reading the New Testament (3) I, II**  
A survey of selected writings from the early Christian communities, understood in their cultural and literary contexts. **P: THL 100; So. stdg.**
- THL 208 New Testament Communities and Their Stories (3) I, II**  
By using a selection of New Testament texts, students will examine early Christian rhetorical and story telling styles, issues that shaped their emerging identity, and their understanding of the Jesus story. **P: THL 100; So. stdg.**
- THL 209 The Synoptic Gospels: The Life of Jesus (3) I, II**  
Describing and understanding Jesus and the Jesus movement group (the “historical Jesus”) from ca. 30 A.D. by means of traditions set down in writings a generation or more later. **P: THL 100; So. stdg.**
- THL 210 Applying the Memory of Jesus: The Community of John (3) I or II**  
Study of the unique witness to the meaning of Jesus in the Johannine writings. **P: THL 100; So. stdg.**
- THL 212 Paul and His Legacy (3) I, II**  
The correspondence of Paul and others following and adapting his tradition is examined for both their style and their message concerning what God has done in Jesus that affects their communities’ lives and identities. **P: THL 100; So. stdg.**
- THL 250 Theological Foundations for Ethical Understanding (3) I, S**  
Study of traditional and contemporary frameworks for determining moral values and making moral decisions in a Christian context. The application of traditional moral understandings to contemporary moral problems. **P: THL 100; So. stdg.**
- THL 324 Scripture and Theology: The Birth of Christian Doctrine (3)**  
This course explores the emergence of the Christian religion from ancient Judaism. It studies the Christian community’s successful effort to articulate a coherent understanding of God, of Jesus, and of the church. The course also considers the enduring significance of these ancient doctrines for the modern world. **P: THL 100 and a 200-level Scripture course; Jr. stdg.**
- THL 325 Catholicism: Creed and Question (3) II**  
This course explores the basic beliefs and teachings of the Roman Catholic Church within the context of current theological debate. **P: 200-level Scripture course; Jr. stdg.**
- THL 326 Defending the Christian Faith (3) I**  
How the Christian church has defended its core doctrines and beliefs against critics both ancient and modern. **P: THL 100; a 200-level Scripture course; Jr. stdg.**
- THL 330 Jesus Christ and the Salvation of the World (3)**  
Exploration through historical analysis and contemporary theory of a fundamental Christian doctrine: “Jesus Christ is Savior of the World.” Study of some of the fundamental questions related to this doctrine. **P: 200-level Scripture course; Jr. stdg.**
- THL 331 Jesus Christ: Liberator (3) (Same as JPS 331)**  
The powerful and almost irresistible aspiration that people have for liberation constitutes one of the principal signs of the times which the church has to examine and interpret in light of the gospel. Christology from the perspective of liberation asks concretely “What do we need to be liberated from in order to know and love Jesus Christ?” **P: THL 100; a**



**200-level Scripture course; So. stdg.**

- THL 335 Jesus Christ: Yesterday and Today (3) I, II** (Same as JPS 335)  
An historical and critical analysis of the meaning of the man Jesus of Nazareth as that meaning was developed in the New Testament and in later Christian traditions. Special emphasis on contemporary theological attempts to answer the perennial question: "Who is this man?"  
**P: 200-level Scripture course; Jr. stdg.**
- THL 338 Eucharist: Liturgical Theology and Practice (3) I, II**  
Study of the Eucharist from an ecumenical perspective. The course is intended for Catholic and Protestant, mainline and evangelical Christians seeking a critical, historical, and theological understanding of their eucharistic heritage. **P: 200-level Scripture course; Jr. stdg.**
- THL 339 Theology of the Church and Sacraments (3) I, II**  
An historical and critical analysis of the sacramental dimension of Christianity as it applies to the church. A treatment of the church as the sacrament of the risen Jesus and of the classical Christian sacraments as solemn, symbolic actions of both that church and that Jesus.  
**P: 200-level Scripture course; Jr. stdg.**
- THL 341 Ecclesiology in Context: The Church in El Salvador** (Same as JPS 341)  
The Central American nation of El Salvador provides a unique opportunity for understanding how one local church tried to heed the call of the Second Vatican Council to read the signs of the times and interpret them in the light of the Gospel.
- THL 344 Theology of Christian Marriage (3) II**  
Christian marriage in its sacramental reality and intrinsic mystery. Particular needs and problems confronting marriage today. **P: 200-level Scripture course; Jr. stdg.**
- THL 345 Honors Theology of Christian Marriage (3)**  
Open to students eligible to enroll in Honors courses. Requires the consent of the Director of the Honors Program.
- THL 349 Egyptian Art and Archeology (3) OD** (Same as ART 349, CNE 349, HIS 349)  
This course will explore the history, society, culture, and religion of ancient Egypt from the pre-dynastic era through the Ptolemaic period, as revealed through its artistic and material remains. Attention will be given to how sculpture, painting, architecture, and other material remains provide a window on Egyptian life and thought. **P: So. stdg.**
- THL 350 Archaeology of Syria-Palestine (3) OD** (Same as ART 350, CNE 350, HIS 350)  
A chronological survey of the archaeology of Syria-Palestine in which material culture provides a window on the history of society, economy, and religion from the Neolithic to Hellenistic times. Special topics include the emergence of farming and pastoral societies, the formation and dissolution of Bronze Age city-states, and the rise and fall of Iron Age kingdoms such as Israel, Moab, and Edom. **P: So. stdg.**
- THL 351 Introduction to Chinese Philosophy (3) OD** (Same as PHL 351)  
Origin and development of Chinese philosophy. The basic doctrines and moral principles that the Chinese tradition holds. Different schools of Chinese philosophy, such as Confucianism, Daoism, and Moism. How Chinese philosophy has been practiced in daily life. The conflicts between Chinese tradition and modern China. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- THL 352 Witchcraft, Oracles and Magic: Anthropological Study of Religion (3)** (Same as ANT 352)  
This course studies the variety of ways in which anthropology describes and interprets religious phenomena. Its focus is on the phenomenon of religion within the context of specific human social groups. **P: So. stdg.**
- THL 353 Introduction to Buddhism (3) OD** (Same as PHL 353)  
Origin and development of Buddhism's basic doctrines and beliefs. The different schools of Buddhist traditions, and the changes as Buddhism spread from India through China and Japan to the West. How Buddhist teachings are practiced in daily life. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- THL 354 Introduction to Judaism (3) OD**  
Development of Jewish faith, philosophy, institutions, and peoplehood. **P: 200-level Scripture course; Jr. stdg.**

- THL 356 Christianity in Africa** (3) OD (Same as AFS 356, BKS 356)  
Introduction to religion among Africans and Africans in the diaspora. African religious concepts of time, creation, the place of humans in creation, initiation rites, marriage, procreation, death. The relationship between the ecclesial and non-ecclesial dimensions; development of the Black sacred cosmos, ritual, music, folk tradition and performance practice.
- THL 357 Introduction to Islam** (3) I  
The development of the religion of Islam, especially its institutions and structures, from the period of the Prophet Muhammad and the revelation of the Holy Quran up to the present. An examination of the basic doctrines of Islam along with its religious practices (including Sufism, the Islamic mystical tradition), plus an overview of Islam in several selected countries or regions (e.g., Turkey, Iran, the Indian sub-continent, the USA). **P: THL 100; 200-level Scripture course, Jr. stdg.**
- THL 358 Critical Issues in the Study of Native American Religion** (3) OD (Same as ANT/NAS 358)  
This course utilizes anthropological perspectives in the study of Native American religion. The focus of the course is non-Western, non-proselytizing religions which are coterminous with local political or kinship based social groups. The course looks at the history of the study of Native religions, the nature of Native religions as understood by a variety of disciplines, and the contemporary critique of colonialism by Native peoples specifically in regard to intellectual colonialism of Native knowledge and the practical colonialism inherent in the imitation of Native religions by non-tribal members.
- THL 359 Living Religions of the World** (3) I, II  
Major Eastern religions: Hinduism, Buddhism, Confucianism, Taoism, Zoroastrianism, and Islam. Judaism. Christianity. **P: 200-level Scripture course; Jr. stdg.**
- THL 360 Social Justice in Theory and Practice** (3) S (Same as JPS 360)  
Experiential and academic inquiry into the sources of social injustices and remedies to them as seen from a Christian perspective. A service/immersion course offered in various locations. **P: THL 250 or PHL 250 and IC; Jr. stdg.**
- THL 361 Social Justice in the Dominican Republic** (6) I (Same as EDP 361, JPS 361)  
A multi-disciplinary study of the history, sociology, politics, economics and religion of the Dominican Republic and the Caribbean. Classroom work is integrated with service-learning and cultural immersion in a context of ethical analyses and reflection. **P: DC only.**
- THL 365 Faith and Moral Development** (1) I (Same as JPS 365)  
Sequence of three mini-seminars over three semesters examining theories of faith and moral development as well as biographies of social justice activists such as Dorothy Day and Martin Luther King, Jr. Required of JPS minors. Open to other students. May be repeated to a maximum of 4 credits. **P: THL/PHL 250 and Jr. stdg.**
- THL 368 Christology Seminar for Majors** (3)  
This course proposes an intensive seminar-based study of the significance of the person and work of Jesus Christ as presented in the New Testament and Church Councils, and interpreted in writings of the Fathers of the Church and of theologians. It will progress along a four-part development. The first two parts include the biblical foundations for Christology followed by the Christological controversies of the early Church. Third and fourth are the specifically medieval contributions to Christology and the contemporary challenges for appropriating traditional Christology.
- THL 390 History of the Christian Church** (3) II  
Survey of the intellectual, ecclesiastical and political developments which shaped Christianity through two millennia. Exploration of complex relations among beliefs, institutions, and practices which constitute Christian history. **P: 200-level Scripture course.**
- THL 391 Applied Ministry/Spirituality** (1-3) OD  
Offered only in the Certificate programs in Ministry and Spirituality. Experiential study chosen in consultation with advisor.
- THL 392 Practicum in Ministry** (3) OD  
Students must complete a project or practicum related to a specific ministry and share it with the church community and the student's advisor.
- THL 395 Community Service** (1) I  
Co-requisite for a designated section of 335-level theology courses. With the guidance of the instructor, students select service sites in the Omaha community where they will volunteer 3-4 hours per week during the semester. Students journal about their experiences each week

and integrate those reflections into their theological study. **P: 200-level scripture course, Jr. stdg. CO: THL 335.**

- THL 416 For the Greater Glory: The Jesuits, their History and Spirituality** (3) OD (Same as HIS 416, SRP 416)  
An examination of the Society of Jesus from its founding by Ignatius of Loyola during the pivotal 16th century, through suppression and recovery to the challenges of the modern, Post-Vatican II era, this course seeks to understand the Jesuits on two levels: through their controversial history, set within the context of their times and as represented by the lives of selected individuals; and through the development of their particular spirituality, Ignatian methods of prayer and discernment of spirits, as originated in the Spiritual Exercises and enhanced over time. Students will have an opportunity both to analyze Jesuit history and to experience Ignatian spirituality in their own interior lives. **P: Sr. stdg. and PHL 250 or THL 250.**
- THL 418 Jesus Through the Ages: Ideas and Images Toward a Coherent Christian Identity and Ethic** (3) (Same as ART 418, SRP 418)  
Employing methods of the fine and performing arts and theology (historical and systematic), this course will seek the “real” Jesus amidst a plethora of images and ideas used by Christians throughout the ages to depict Jesus Christ. It will critique the historical-cultural dependencies of these images and ideas to discern which of them, if any, remain normative for Christianity, which are time-bound, which still speak powerfully, which do not—and why. In the process this course will not only inform students about the single most significant figure in human history but engage them in a personal search for an authentic Christian identity and ethic. **P: Sr. stdg. and PHL 250 or THL 250.**
- THL 420 Science and Religion** (3) OD (Same as PHL 420, SRP 420)  
This course explores the relationship between science and religion from three perspectives: philosophy of science, scientific theories, and theology. Issues to be studied include: reductionism vs. emergentism, the relationship between God and world (including creation and evolution), the Galileo affair, and Darwin and design. **P: Sr. stdg. and PHL 250 or THL 250.**
- THL 440 Liturgy, Music, and the Transformed Life** (3) OD (Same as MUS 440, SRP 440)  
A study of the historical development of the relationship between the Eucharist and liturgical music. How the liturgy (Eucharist, scripture reading, music, and architecture) intends the transformation of the assembly into a moral, virtuous, and just community. **P: Sr. stdg. and PHL 250 or THL 250.**
- THL 457 Biomedical Ethics: Philosophical and Theological Approaches** (3) OD (Same as HAP 457, PHL 457, SRP 457)  
An exploration of relations between philosophical and theological conceptions of ethics and moral methodologies, together with an application of the latter to select issues in biomedicine and health care policy. **P: THL 250 or PHL 250, Sr. Stdg.**
- THL 458 Theology and the Vocation to Health Care** (3) (Same as SRP 458)  
Health care in the United States is both big money and arguably the most important social justice issue in contemporary society. This course will offer an opportunity for students at Creighton to discern whether or not they are called to the vocation of caring for others through medicine, dentistry, pharmacy, physical and occupational therapy, nursing or emergency medical services. **P: Sr. stdg.**
- THL 461 The Role of Philosophy in Theology** (3) OD (Same as PHL 461)  
Examination of the relation between philosophy and theology, their different ways of thinking about God and Revelation; the role that philosophy has played and can play in the development of theological thought; the impact that theological ideas have had on philosophical thought; and the interplay between faith and reason. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- THL 468 Christianity and Power: A Russian Case Study** (3) OD (Same as SRP 468, PLS 468)  
Challenges students to consider the link between religion and politics. Starting from the assumption that politics is fundamentally about the competition of ideas, it considers the

ideals of Russian Orthodoxy and measures them against the goals and actions of the Russian state. **P: Sr. stdg.**

- THL 469 Psychological and Theological Approaches to Vocation** (3) (Same as PSY 469, SRP 469)  
This course examines the concept of vocation from an interdisciplinary perspective using insights from psychology and theology. Research and theory from the fields of personality, motivation, and social psychology are complimented with the theology of the Incarnation, Ignatian spirituality, and relevant texts from four historical periods of Christianity. **P: PHL 250 or THL 250 and Sr. stdg.**
- THL 470 Seminar in Selected Topics** (3) OD  
Topical seminar with topics changing in different semesters. **P: 200-level Scripture course; Jr. stdg.**
- THL 488 Personal and Spiritual Dimensions of Leadership** (3) (Same as COM 488, EDU 488, SRP 488)  
The purpose of the course is to give students the opportunity to engage in introspection and examination of their personal belief and value systems related to leadership. The course begins from the assumption that leadership is "a journey that begins within" and examines the relationship between leadership theory and Christian spirituality. Biographical examples will be analyzed; biographies will be drawn from diverse fields such as health, science, business, government, sports and education. **P: Sr. stdg.**
- THL 491 Seminar in Liturgy/Ministry/Spirituality/Theology** (1) OD  
Certificate in Liturgy/Ministry/Theology/Spirituality students attend five seminars and complete the Portfolio in Ministry during their course of study.
- THL 492 Senior Seminar** (3) I  
Study of a major theme in the Christian theological tradition. Each student will write and present a major research paper related to this theme. **P: 300-level Christian Theology course; Sr. stdg. Open to Theology majors only.**
- THL 493 Directed Independent Readings** (1-4) OD  
May be repeated to a limit of six hours. **P: DC.**
- THL 495 Directed Independent Study** (1-4) OD  
May be repeated to a limit of six hours. **P: DC.**
- THL 498 Pastoral Synthesis** (3) OD  
Integrating project synthesizing a personal pastoral experience under faculty direction.

### *BIBLICAL STUDIES (THL 500-529)*

- THL 501 The Pentateuch** (3) OD  
Origin and composition of the first five books of the Bible. Historical and theological traditions contributing to their formation. Emphasis on their unique theology and on the use of the books in the New Testament period. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**
- THL 502 Old Testament Themes** (3) OD  
In-depth study of the themes of covenant and community as they are developed in the Pentateuch and in Prophetic and Wisdom Literature. A survey of contemporary scholarship will support a careful study of the pertinent texts. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**
- THL 503 The Prophetic Literature of the Old Testament** (3) OD  
The uniqueness of the prophetic movement. Background literary styles, relevance of the prophetic message. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**
- THL 504 The Wisdom Literature of the Old Testament** (3) OD  
Study of the patterns of Proverbs, Job, Ecclesiastes, some of the Psalms, compared with the wisdom literature of other ancient peoples. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**
- THL 507 Gospel of Matthew** (3) OD  
A study of the theological vision of the text of this gospel, using all available methods and

resources: redaction criticism, composition criticism, narrative criticism, etc. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**

- THL 508 The Gospel of Mark (3) OD**  
A study of the first written gospel, its outline and structure, authorship, sources and influence on later New Testament writings. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**
- THL 509 The Gospel of Luke and the Acts of the Apostles (3) OD**  
Study of Luke-Acts as a two-volume whole- a work of history, theology, and literary artistry. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**
- THL 511 The Gospel of John (3) OD**  
Study of the unique witness to the meaning of Jesus in the Johannine Gospel. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**
- THL 514 The Pastoral Epistles (3) OD**  
The first attempts to weld Christianity and Western humanism as initiated in the Epistles to Timothy and Titus. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**
- THL 516 The Book of Revelation (The Apocalypse) (3) OD**  
A contemporary scholarly interpretation of the book of Revelation with reference to contemporary apocalyptic. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**
- THL 517 The Parables of Jesus (3) OD**  
Stories that formed the core of Jesus' preaching. How he told them. How the evangelists retold them. How we understand them today. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**
- THL 518 Women and the Bible (1-3) OD (Same as WGS 518)**  
Study of the representations of women in biblical narratives; attention to the construction of gender in the ancient world. Introduction to the various approaches contemporary women are taking to these biblical texts. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**
- THL 519 Reading the Bible in the Context of the Time (1)**  
This course is intended as a primer for more carefully discerning the message of biblical passages by tempering interpretation with knowledge of the culture. Emphasis is on an analytical perspective of the cultural context within which the passages were written.
- THL 520 The Dead Sea Scrolls (3) OD (Same as CNE 520)**  
Introduction to the Dead Sea Scrolls and various theories about their origin. Exploration of the light they shed on the textual history of the Hebrew Bible, developments in ancient Judaism, and the early history of Christianity. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**
- THL 524 History of Ancient Israel (3) OD (Same as CNE 524, HIS 524)**  
An examination and reconstruction of the history of ancient Israel from biblical and other ancient New Eastern literary texts, and from archaeological and epigraphic materials. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**
- THL 525 Archaeological Fieldwork and Analysis (3) S (Same as ANT 525, CNE 525)**  
The student learns the principles of stratigraphic archaeology (or underwater archaeology) by participating in an excavation for a minimum of four weeks. The student will learn stratigraphic theory and excavation strategy, basic archaeological techniques, and the basic analysis of archaeological materials recovered from the site. (Underwater archaeologists will learn basic underwater techniques in place of some terrestrial methods.)
- THL 526 Archaeology of Roman Palestine (3) S (Same as ANT 526, CNE 526)**  
This is a study of ancient Palestine from the rise of the Herodian dynasty in the first century B.C.E. to the aftermath of the Muslim conquest in the seventh century C.E. the material of the course is the physical remains of archaeological sites throughout modern Israel, along with movable cultural remains that issued from these sites. The major focus of the course will be the interaction between Classical Mediterranean civilization on the one hand, and

the Jews and other Middle Eastern peoples on the other, in the age that yielded Rabbinic Judaism, Christianity and Islam. **CO: THL 525.**

**THL 527 Study Tour of Biblical Israel (3) S**  
Two-week guided tour of the biblical sites in Israel. Typical sites: Caesarea Maritima, Sea of Galilee, Tiberias, Bethsaida, Capernaum, Tabgha, Jordan River, Sepphoris, Megiddo, Nazareth, Mt. Tabor, Hazor, Tel Dan, Caesarea Philippi, Tel Bet Shean, Jericho, Judaean Wilderness, Mt. of Olives, Bethlehem, Jerusalem, Masada, and Qumran. A biblical scholar accompanies the group, supplementing local guides. Requirements include readings before trip, written reflections afterward.

**THL 529 Translations of the Bible (3) (Same as CNE 529)**  
Various ancient translations of the Bible and their significance. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**

### *HISTORICAL-DOCTRINAL-LITURGICAL STUDIES (THL 530-559)*

**THL 530 Contemporary Catholic Theologians (3) OD**  
Key themes in the thought of Rahner, Congar, De Lubac, Lonergan, and other contemporary Catholic theologians. **P: 200-level Scripture course; Jr. stdg.**

**THL 531 Studies in Early Christianity (3) I, OD**  
The emergence of early Christian theology through the writing of the theologians of the first 500 years of the Church's history. Attention to some of these themes: the development of the doctrine of the Trinity, the emergence of Classical Christology, early Christian exegesis, the thought of St. Augustine. **P: THL 100 and a Scripture course, Jr. stdg.**

**THL 532 Ecclesiology: Contemporary Church Questions (3)**  
Study of selected issues in the contemporary church. Offered at the Jesuit College in St. Paul, Minnesota.

**THL 533 Ecclesiology: Contemporary Church Questions (3)**  
Basic contemporary questions about the life of the church will be explored in the context of the Creed and traditional dogmatic theology. Particular emphasis will be placed on the church's transition into the third millennium.

**THL 534 Introduction to Liberation Theology (3) OD**  
Liberation theology arose during the sixties and seventies in Latin America as a way of reflecting upon and acting out Christian faith from the perspective of those who directly experience a world of poverty, injustice and violence. Although particular to Latin America, the issues raised by liberation theology are relevant to Christianity in North America as well. **P: 200-level Scripture Course and Jr. stdg.**

**THL 535 Doctrinal Development: Christology (3) OD**  
Development of the Christian community's understanding and teaching about the person and work of Jesus Christ. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**

**THL 537 Doctrinal Development: Sin and Grace (3) OD**  
Development of the Christian community's understanding and teaching about the mysteries of grace and sin. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**

**THL 538 Seminar in Christian Anthropology (3) OD**  
Study of Christian theological anthropology in eastern and western traditions. **P: THL 100 and a 200-level Scripture course, Jr. stdg.**

**THL 539 Seminar in Christian Eschatology (3)**  
Study of issues and images related to the theology of the afterlife in Christian traditions. **P: 200-level Scripture Course and Jr. stdg.**

**THL 540 Ecclesiology: The Documents of Vatican II (3) OD**  
Basic contemporary questions about the life of the church will be explored through a care-

ful study of *Lumen Gentium* and other selected documents from Vatican II. The Council's theology is examined in the context of the Creed and traditional dogmatic theology. This course is graded Satisfactory/Unsatisfactory.

- THL 544 Christian Celebration: The Liturgical Year (3) OD**  
Biblical origins and historical development of feast and season, e.g., Christmas and Easter. The theologies of the saints' days and celebrations. History and meaning of daily common prayer in the Church. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**
- THL 545 Liturgy and Christian Life (3) OD**  
The historical development of Western liturgy and its technological interpretation through the centuries. Emphasis on the saving presence of Christ and on the role of liturgy in the rest of Christian life. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**
- THL 552 Studies in Medieval Christianity (3) II**  
This course surveys the history and theology of the medieval Church, examining key religious institutions (e.g., the papacy, monastic orders, universities) and key leaders and theologians (e.g. Benedict, Gregory VII, Anselm, Bernard of Clairvaux, Francis of Assisi, Thomas Aquinas). **P: THL 100 and 200-level Scripture course and Jr. stdg.**
- THL 555 Major Christian Theologian (3) II**  
This course involves an in-depth study of the life and writings of a major Christian theologian, one who shaped Christian history and doctrine in a decisive way: for example, Origen, Gregory of Nyssa, Augustine, Maximus the Confessor, Bonaventure, Thomas Aquinas, Martin Luther, John Calvin. This course is repeatable if taken under a different topic to a maximum of six credits. **P: THL 100 and a 200-level scripture course and Jr. stdg.**

#### *CHRISTIAN LIFE STUDIES (THL 560-599)*

- THL 560 Theology of Ministry (3) OD**  
Through historical investigation of the practice of ministries in the western church from earliest times to the present, this course aims to arrive at some systematic conclusions about the nature of ministry. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**
- THL 561 Finding God in Daily Life: Prayer and Discernment (3) OD**  
General introduction to Christian spirituality with special emphasis on Ignatian spirituality. Goal is to deepen understanding of spirituality as well as to improve the quality of Christian living by developing practices of personal prayer and discernment of spirits. Special emphasis placed on the theology of the Holy Spirit, Ignatian spirituality and the spirituality of Thomas Merton. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**
- THL 563 Contemporary Moral Problems (3) OD**  
A comprehensive study of one or more moral issues facing contemporary society.
- THL 564 Christian Sexual Ethics (3) OD**  
Investigation of the historical and methodological dimensions of sexual ethics within the Catholic tradition; contemporary magisterial teachings on issues such as premarital sex, artificial birth control, homosexuality, and reproductive technologies; critical analysis of those teachings from various theological perspectives. **P: THL 100 and a 200-level Scripture course; Jr. stdg.**
- THL 565 Catholic Social Teaching (3) OD (Same as JPS 565)**  
Historical development of Catholic social teaching from the 1891 publication of "The Condition of Labor" to the present. Students are encouraged to apply the core insights of the tradition to contemporary issues. **P: Two previous THL courses; Jr. stdg.**
- THL 567 Ethical Issues in Health Care (3) OD**  
Inquiry into the values and ethical problems of modern medicine from the viewpoint of Christian theology. **P: 200-level Scripture course; Jr. stdg.**
- THL 568 Women in the Christian Tradition (3) OD (Same as WGS 568)**  
Study of the outlook on man, woman, and divinity in the Bible, the Christian churches past and present, and "post-Christian" feminism. Examination of the Judeo-Christian tradition, both the pervasiveness of its patriarchal assumptions, and the liberating resources it can contribute to a healthy understanding of maleness and femaleness today. **P: 200-level Scripture course; Jr. stdg.**

- THL 572 Ethics and Spirituality (3) OD**  
Consideration of the diverse spiritual traditions of Christianity to see asceticism, prayer, contemplation and discernment as categories which bridge spirituality and ethics. The traditional strands of Christian spirituality as resources for the contemporary life of faith and action. Readings from John of the Cross, Kierkegaard, Kenneth Kirk, Dorothy Day, Merton, Barth and Rahner. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**
- THL 573 Religion and Politics (3) OD**  
Four Christian formulations of the relation of religion to politics: the sectarian approach, linked to liberal humanism; the natural law tradition, reformulated as basic human rights; the integration of religion and politics in liberation theology; and Christian realism with its dialectic of distance and engagement. Some of the complex interpenetrations of religious issues and political realities. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**
- THL 574 Faith and Food (3) OD**  
A biblical and contemporary approach to food as fellow creature, medium of fellowship, component of worship, tool of exploitation, prophetic symbol, and object of stewardship. **P: 200-level Scripture course; Jr. stdg.**
- THL 575 Foundations of Christian Spirituality (3) I or II, AY**  
Designed to introduce students to the major historic and contemporary themes, images and practices in the Christian spiritual tradition. Focus on students' integration of that tradition into their own lives. **P: 200-level Scripture course; Jr. stdg.**
- THL 576 Introduction to Jesuit Spirituality (3) OD**  
Study of the life and selected writings of St. Ignatius Loyola as well as contemporary interpretation of his spirituality. Topics include Jesuit prayer, selections from the Constitutions of the Society of Jesus, chief documents from the 32nd Congregation of the Society of Jesus, discernment, and the vow of obedience. **P: 200-level Scripture course; Jr. stdg.**
- THL 577 Special Questions in Jesuitica (1-4) OD**  
Systematic and/or historical investigation of topics relating to the Society of Jesus. Content and number of credits to be specified when the course is offered. This course is graded Satisfactory/Unsatisfactory. (This course offered only at the Jesuit College, St. Paul, Minn.).
- THL 579 Special Methods of Teaching Religion in the Secondary Schools (3) (Same as EDU 579)**  
Overview of the principles for communicating the Christian message effectively to different age levels with opportunities to observe and put them into practice. The course deals with the objectives and functions of religious education in terms of secondary school learning experiences. Attention is directed to the selection, organization, and presentation of meaningful learning materials and selection, use and evaluation of textbooks and related aids. **P: EDU 341 and EDU 342 or EDU 551 and EDU 552.**
- THL 580 Christianity and Modern Humanism (3)**  
Comparative study of classical Christian accounts of the human condition and various modern, post-theological accounts. **P: THL 100, and THL 250 or PHL 250.**
- THL 583 Exploring Buddhism (1) Spring 2001**  
An overview of the Buddhist tradition. The basic doctrines of Buddhism and the path to liberation (nirvana). Concentration on Buddhism in Tibet and the Zen tradition in Japan.
- THL 585 Foundational Principles and Leadership Skills for Youth Ministry (4) OD**  
The foundational understandings and principles of comprehensive youth ministry; a deeper understanding for the minister of the theological foundations of youth ministry. Theories, skills and approaches for effective leadership in ministry.
- THL 586 Fostering the Faith Growth of Youth Through the Components of Youth Ministry (4) OD**  
Exploration of adolescent spirituality, theological and spiritual foundations for engaging young people in the work of justice and service, theological understandings of faith, discipleship, and Catholic identity, and caring for young people and their families.
- THL 587 Methods of Teaching Religion in Elementary School (3) I, AY (Same as EDU 587)**  
The course is designed to prepare students to effective religious educators in Catholic elementary schools. The course content will encompass the four dimensions of religious education: message, community, service and worship. Students will not only become acquainted with methods and materials for teaching religion, but they will also gain experience planning liturgical celebrations.

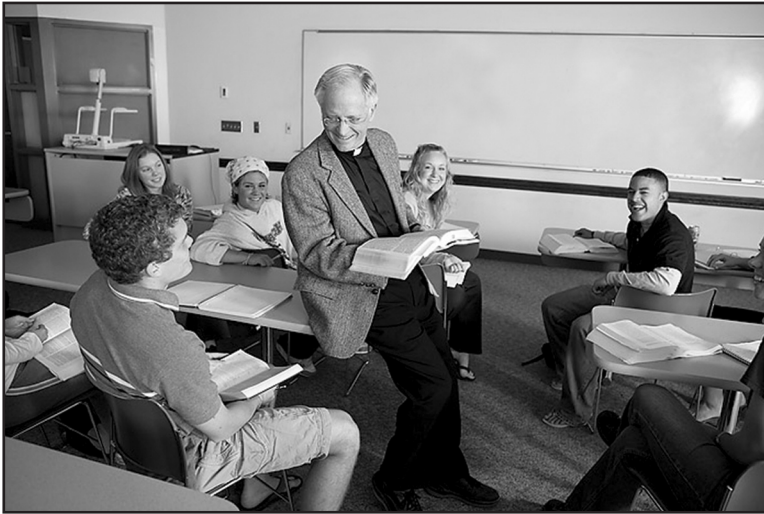


- THL 588 Christian Ethics of War and Peace** (3) OD (Same as JPS 588)  
Introduction to the development and application of Christian ethical perspectives on the use of lethal force from the biblical period to the present day. Just war theory and pacifism in both Catholic and Protestant traditions; at least one non-Christian perspective on war. Special attention given to the formation of personal conscience in reflection on public policy and world events, both historical and current. **P: PHL or THL 250, Jr. stdg.**
- THL 592 Practicum in Ministry** (3-6) OD  
Supervised experience and development of skills in appropriate ministry under faculty direction.  
Graduate-level courses (600-700-series courses, open only to graduate students) offered by the Department of Theology are listed in the Graduate School issue of the *Creighton Bulletin*.

## WOMEN'S AND GENDER STUDIES

*For the Women's and Gender Studies Program of Study, please refer to page 185.*

- WGS 200 Introduction to Women's and Gender Studies** (3) OD  
Introduce students to the theoretical frameworks of feminist theory, contemporary theory on gender differences, and theories of oppression and privilege, particularly with respect to ethnicity, race, class, and sexual orientation.
- WGS 205 American Family Issues** (3) I (Same as SOC 205)  
Systematic examination of the history of American families and contemporary changes affecting and taking place within today's families. Attention is directed to in-depth consideration of four or five major issues, such as divorce, single-parent families, family violence, reproductive dilemmas, dual-worker families, etc.
- WGS 316 Women in Ancient Greece and Hellenistic Egypt** (3) OD (Same as CNE 316)  
Survey of aspects of women's lives in Greek and Greco-Egyptian antiquity incorporating the evidence of art, literature, and archaeology: study of the constructs of the female and the feminine. Readings from ancient and modern sources. **P: So. stdg. or IC.**
- WGS 317 Women in Ancient Rome and Roman Egypt** (3) OD (Same as CNE 317)  
Survey of aspects of women's lives in Roman and Roman-Egyptian antiquity incorporating the evidence of art, literature, and archaeology; study of the constructs of gender and gender roles. Readings from ancient and modern sources. **P: So. stdg.**
- WGS 318 Gender in American Society** (3) I (Same as AMS 318, SOC 318)  
Comprehensive examination of the forces shaping the position and behavior of women and men in modern American society. How and why do these positions and behavior differ? What are the consequences of these differences? Emphasis on gender as enacted across the spectrum of multicultural diversity in American society, with some comparison to other societies. **P: So. stdg.**
- WGS 329 Gender and Politics** (3) OD (Same as PLS 329)  
Examines of issues of gender and politics from political theory, political behavior and public policy perspectives. Students critique democratic theory, analyze gender differences in voting and in officials' behavior, and develop proposals to address policy problems. **P: So. stdg.**
- WGS 348 Philosophy of Feminism** (3) OD (Same as PHL 348)  
An examination of a number of philosophical approaches, such as those rooted in existentialism, liberalism, and Marxism, to issues concerning gender. Topics from fields such as ethics, politics, philosophy of law, epistemology, and philosophy of science will be addressed. **P: PHL 107, and one of the following: (a) PHL 201, (b) PHL 250, (c) PHL 312, or (d) PHL 320.**
- WGS 360 Gender, Society and Culture** (3) II (Same as ANT 360, SOC 360)  
Examines gender from a holistic perspective, including language, biology, cultural history, and socio-cultural variables. The course will examine gender in a wide variety of cultures. **P: So. stdg.**
- WGS 366 The Status of Women: Progress and Process** (3) II (Same as SWK 366)  
Examines the historical, social, economic and political content of women's issues. Explores concepts of feminism and sexism in contemporary society. Current social issues will be examined in relation to present and future generations of women. **P: Jr. stdg.**



- WGS 409 Race and Gender Relations: Moral and Ethical Dilemmas (3) S** (Same as ANT/SRP/SWK 409)  
 This course explores the multiple faceted experience of being a person of color, a specific gender and immigrants in the United States. Institutional forces (economic, educational, familial, political and social welfare) are examined that influence the structure and status of persons of color, immigrants and women and men. Emphasis is understanding the diversity of the United States and the connections between and among race, gender and class and their complexity. Ways to better understand and interact are presented in addition to ways to foster social change. **P: Sr. stdg.**
- WGS 410 Women in Literature (3) OD** (Same as ENG 410)  
 Literary works by and about women. **P. Jr. stdg.**
- WGS 440 Gender Communication (3) II** (Same as COM 440, SOC 440)  
 Focuses on the similarities and differences in the communicative behaviors of women and men. Lectures, in-class experiential exercises, role-playing, and group discussions devoted to such topics as female-male roles and stereotypes; differences in verbal and nonverbal codes; partnership styles and alternatives; specific communication skills aimed at female-male relationships in a variety of settings (e.g., education, the workplace, the media, etc.); and special problem areas of female-male communication.
- WGS 460 The History of Women in the United States (3) OD** (Same as AMS 460, HIS 460)  
 The economic, social, and political status of women in the United States from colonial times to the present. Concentration on four major topics: the family, the work place, the community, and the feminist movements. An integral part is the examination of the traditional roles of women in society as well as changes in those roles. **P: So. stdg.**
- WGS 464 Women, Marriage, and Family in East Asian Society (3) II** (Same as HIS 464)  
 Focus on the role and status of women in China and Japan since the 16<sup>th</sup> century, emphasizing how, why and by whom womanhood has been defined and redefined over time. **P: So. stdg.**
- WGS 473 The Psychology of Gender (3) OD** (Same as PSY 473)  
 This course will examine the topic of gender - the behaviors and attitudes that relate to (but are not entirely congruent with) biological sex. A critical review of gender research is going to be at the center of this class. We will review empirical articles on sex, gender-related behaviors taken from the areas of psychology, sociology, biology, biochemistry, neurology, evolution, and anthropology to generate an overall picture of gender from a psychological perspective. **P: IC.**
- WGS 518 Women and the Bible (1-3) OD** (Same as THL 518)  
 Study of the representations of women in biblical narratives; attention to the construction of gender in the ancient world. Introduction to the various approaches contemporary women are taking to these biblical texts. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**

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# FACULTY

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- AMY A. ABBOTT, *Assistant Professor of Nursing* (1996; 2001).  
B.S.N., Creighton University, 1992, M.S. in Nursing, 1998.
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- NATALIE ROSS ADKINS, *Assistant Professor of Marketing* (2000).  
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- ROGER C. AIKIN, *Associate Professor of Fine Arts* (1980; 1985).  
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B.F.A., University of Nebraska-Omaha, 1989; M.F.A., Vermont College, 1992.
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B.A., Creighton University, 1962; M.A., University of Missouri at Columbia, 1963; Ph.D., Michigan State University, 1969.
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- ARIS ANDREWS, *Assistant Professor of Nursing* (1987; 1990).  
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B.S.C., The University of Alabama, 1960; M.S.C., 1961; Ph.D., 1969.
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B.S., Creighton University, 1949; M.S., 1951; Ph.D., University of California, Berkeley, 1958.

- ROGER BERGMAN, *Lecturer of Theology* (1989); *Director, Justice and Peace Studies Program* (1995); *Assistant Professor of Sociology and Anthropology* (2006).  
B.A., Kansas State University, 1970; M.A., University of Arizona, 1977; M.T.S., Weston School of Theology, 1991; Ph.D., University of Nebraska-Lincoln, 2005.
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Ph.D., North Dakota, 1976.
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Ph.D., 1985, Medical College of Wisconsin, 1985.
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B.A., University of California-San Diego, 1987; Ph.D., Brown University, 1997.
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B.S., Moorhead State University, 1989; Ph.D., Iowa State University, 1994.
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- LOUIS E. GARDNER, *Professor Emeritus of Psychology* (1967; 2000).  
B.S., Xavier University, 1959; M.A., 1963; Ph.D., Michigan State University, 1966.
- JULI-ANN GASPER, *Associate Professor of Finance* (1982; 1988).  
B.S., Iowa State University, 1972; M.S., 1974; Ph.D., University of Nebraska-Lincoln, 1984.
- CHRISTOPHER GERTEIS, *Assistant Professor of History* (2006).  
B.A., University of California, 1992; M.A., University of Iowa, 1995; Ph.D., 2001.
- DONALD B. GIBBS, *Assistant Professor Emeritus of Modern Languages and Literatures* (1966; 2005).  
B.A. Providence College, 1964; M.A., University of Nebraska-Lincoln, 1966.
- CYNTHIA J. GIBSON, *Assistant Professor of Psychology* (2001).  
B.S., Old Dominion University, 1996; M.S., Virginia Commonwealth University, 2000; Ph.D., 2001.
- JOHN M. GLEASON, *Professor of Decision Sciences* (1985); *Professor Emeritus* (2005)  
B.S., University of Missouri at Kansas City, 1967; M.B.A., 1969; D.B.A., Indiana University, 1973.
- ANDREAS GOMMERMANN, *Professor Emeritus of Modern Languages and Literatures* (1967; 1997).  
M.A. Marquette University, 1967; Ph.D., University of Nebraska-Lincoln, 1975.
- NALINI GOVINDARAJULU, *Assistant Professor of Operations Management* (2005).  
B.Com, Meenakshi College (India), 1998; M.B.A., New Mexico State University, 2001; Ph.D., 2005.
- ERNEST P. GOSS, *Professor of Economics* (1992); *Jack A. MacAllister Endowed Chair of Regional Economics* (1992).  
B.A., University of South Florida, 1972; M.B.A., Georgia State University, 1975; Ph.D., University of Tennessee, 1983.
- KEVIN M. GRAHAM, *Associate Professor of Philosophy* (1996; 2002).  
B.A., St. John's College (Maryland), 1990; M.A., University of Toronto, 1991; Ph.D., 1996.
- G. H. GRANDBOIS, *Associate Professor of Social Work* (1991); *Chair, Department of Social Work* (1993).  
B.S., University of North Dakota, 1971; M.S.W., University of Minnesota-Duluth, 1975; D.S.W., University of Utah, 1979.
- JANET GRAVES, *Assistant Professor of Nursing* (1987; 1989); *Coordinator, Information Management* (1989).  
B.S.N., University of Nebraska at Omaha, 1967; M.S., Creighton University, 1985; Ph.D., University of Colorado, 1996.
- LEONARD J. GREENSPOON, *Professor of Classical and Near Eastern Studies* (1995); *Professor of Theology* (1995); *Holder of Philip M. and Ethel Klutznick Chair in Jewish Civilization* (1995).  
B.A., University of Richmond, 1967; M.A., 1970; Ph.D., Harvard University, 1977.
- ERIN M. GROSS, *Assistant Professor of Chemistry* (2004).  
B.S., Creighton University, 1996; Ph.D., University of North Carolina at Chapel Hill, 2001.
- ANDREW B. GUSTAFSON, *Associate Professor of Business Ethics and Society* (2005).  
B.A., University of Nebraska - Lincoln, 1992; M.A. Trinity College, 1994; M.A. Fordham University, 1997; Ph.D., Marquette, 2001.
- TIMOTHY S. GUTHRIE, *Associate Professor of Journalism and Mass Communication* (2003).  
B.F.A., Creighton University, 1989; M.F.A., University of Idaho, 1996.
- NINA HA, *Assistant Professor of English* (2005).  
B.A., Smith College, 1994; M.A., University of California-Los Angeles, 1997; Ph.D., University of Massachusetts, Amherst, 2003.

- DAVID A. HABERMAN, *Professor Emeritus of Journalism and Mass Communication* (1955; 1995).  
B.A., Marquette University, 1950; M.A., University of Wisconsin, 1955; J.D., Creighton University, 1964.
- MARTHA W. HABASH, *Associate Professor of Classical and Near Eastern Studies* (1995; 2006).  
B.A., College of William and Mary, 1984; M.H., University of Richmond, 1987; M.A., University of Virginia, 1990; Ph.D., 1994.
- AMY M. HADDAD, *Professor, Creighton Center for Health, Policy, and Ethics* (1996); *Professor of Pharmaceutical and Administrative Sciences School of Pharmacy and Health Professions* (1988; 1992), *Director, Center for Health Policy and Ethics* (2005).  
B.S.N., Creighton University, 1975; M.S.N., University of Nebraska, 1979; Ph.D., 1988.
- M. DENNIS HAMM, S.J., *Professor of Theology* (1975; 1991); *Holder of the Amelia B. and Emil G. Graff Chair in Catholic Theology* (2005).  
A.B., Marquette University, 1958; M.A. (English), St. Louis University, 1964; M.A. (Scripture), 1970; Ph.D., 1975.
- PAUL FREDERICK HANNA, *Associate Professor of Fine and Performing Arts* (1997; 2004).  
B.S.E., University of Arkansas, 1985; M.M., Northwestern University, 1990; D.M.A., New England Conservatory of Music, 1997.
- WILLIAM HARMLESS, S. J., *Professor of Theology* (2003).  
B.A., Rice University, 1975; M.Div., Weston School of Theology, 1987; Ph.D., Boston College, 1990.
- ANN M. HARMS, *Assistant Professor of Nursing* (2003).  
B.S.N., 1973, Marmount College; M.S.N., 1980, University of Colorado Health Sciences Center.
- CHARLES L. HARPER, *Professor of Sociology* (1968; 1999).  
B.S. in Edu., Central Missouri State College, 1962; M.A., University of Missouri at Kansas City, 1967; Ph.D., University of Nebraska-Lincoln, 1974.
- BARBARA M. HARRIS, *Assistant Professor of Social Work* (1991).  
B.S.W., University of Nebraska-Lincoln, 1977; M.S.W., University of Nebraska-Omaha, 1983; Ph.D., University of Nebraska, Lincoln, 1995.
- HOLLY ANN HARRIS, *Associate Professor of Chemistry* (1990; 1995); *Chair, Department of Chemistry* (2002).  
B.S., Harvey Mudd College, 1982; Ph.D., University of Wisconsin-Madison, 1988.
- KATHERINE L. HATFIELD, *Assistant Professor of Communication Studies* (2005).  
B.A.A., Central Michigan University, 2000; M.A., 2002.
- RICHARD J. HAUSER, S.J., *Professor of Theology* (1971; 1987).  
B.A., Saint Louis University, 1961; M.A.T., 1964; Ph.L., 1964; S.T.L., 1969; M.A., 1969; Ph.D., Catholic University of America, 1973.
- JEFFREY P. HAUSE, *Associate Professor of Philosophy* (2002; 2006); *Associate Professor of Classical and Near Eastern Studies* (2006) (secondary appointment).  
B.A., University of California, Los Angeles, 1982; B.A., University of California, Irvine, 1984; M.A., Cornell University, 1987; Ph.D., 1995.
- ANTHONY R. HENDRICKSON, *Professor of Information and Technology* (2005), *Dean of the College of Business Administration* (2005).  
B.S. Northwest Missouri State University, 1976; M.B.A. Northwest Missouri State University, 1980; Ph.D. University of Arkansas, 1991.
- ERIC T. HENDRICKSON, *Captain, U.S. Army, Assistant Professor of Military Science* (2005).  
B.S., University of Nebraska-Lincoln, 1996; M.A., University of Missouri-Rolla, 2001.
- MARIBETH HERCINGER, *Assistant Professor of Nursing* (1998).  
B.S.N., Creighton University, 1976; M.S.N., University of Nebraska Medical Center, 1982.

- LUCILLE R. HEWITSON, *Professor of Modern Languages and Literatures* (2006); *Chair, Department of Modern Languages and Literatures*.  
Honors Bachelors Degree, Queen's University, D.U., Université de Strasbourg, France, 1967; Ph.D., Université de Montreal; Ph.D., Université de Bordeaux, III, France, 1978.
- ANDREW K. HOH, *Associate Professor of Management* (1976; 1982); *Acting Chair, Department of Marketing and Management* (2004).  
B.A., Sogang Jesuit University (Korea), 1966; M.B.A., Creighton University, 1971; Ph.D., University of Minnesota, 1976.
- BRUCE HOUGH, *Assistant Professor of Journalism and Mass Communication* (1974); *Assistant Professor of Fine and Performing Arts* (secondary appointment) (2002).  
B.A., Western Illinois University, 1965; M.A., Indiana University, 1969; Ph.D., University of Nebraska-Lincoln, 1983.
- NAINSI HOUSTON, *Assistant Professor of English* (2001).  
B.A., University of Dayton, 1990; M.A., (English), University of Cincinnati, 1995; M.A., (Women's Studies), 1997; Ph.D., University of Tulsa, 2000.
- LYNNE E. HOUTZ, *Associate Professor of Education* (1997; 2003).  
B.S., Kent State University; M.S., University of Nebraska-Omaha, 1985; Ph.D., University of Nebraska-Lincoln, 1992.
- ELEANOR HOWELL, *Associate Professor of Nursing* (1996); *Associate Dean for Academic and Clinical Affairs* (1996); *Dean of Nursing* (2003).  
B.S.N., Medical College of Georgia, 1978; M.S.N. University of Alabama-Birmingham, 1981; Ph.D., 1993.
- MARTIN R. HULCE, *Professor of Chemistry* (1991; 2002).  
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- MATTHEW T. HUSS, *Associate Professor of Psychology* (2000; 2005).  
B.A., Creighton University, 1992; M.S., Emporia State University, 1994; M.L.S., University of Nebraska, Lincoln, 2000; Ph.D., 2000.
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B.A., North Texas State University, 1969; M.A., 1972; Ph.D., Michigan State University, 1983.
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B.S., University of Nebraska-Omaha, 1977; M.A., University of the Pacific, 1980; Ph.D., University of Nebraska-Lincoln, 1993.
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B.S.N. Creighton University, 1994; M.S. in Nursing, 1999.
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B.S., United States Military Academy at West Point, 1997.
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B.S., University of North Dakota-Grand Forks, 1981; M.A., 1988; Ph.D., University of Missouri-Columbia, 1994.
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- BRIDGET M. KEEGAN, *Professor of English* (1996; 2005).  
A.B., Harvard University, 1987; M.A./Ph.D, State University of New York at Buffalo, 1994.
- THOMAS M. KELLY, *Director, Encuentro Dominicano Program* (2002; 2005).  
B.A., University of Notre Dame, 1991; M.A., Ph.D. Boston College, 1999.
- ROBERT E. KENNEDY, *Associate Professor of Physics* (1966; 1972); *Chair, Department of Physics* (1993); *Interim Dean, College of Arts and Sciences* (2006).  
B.S., Loyola University of Los Angeles, 1961; Ph.D., University of Notre Dame, 1966.

- MAYA M. KHANNA, *Assistant Professor of Psychology* (2006).  
 A.B., Washington University, 2000; Ph.D., University of Michigan, 2006.
- ERIKA L. KIRBY, *Associate Professor of Communication Studies* (1998; 1999); *Director, Women's and Gender Studies Program* (2002); *Chair, Department of Communication Studies* (2005).  
 B.A., Buena Vista University, 1993; M.A., University of Minnesota, 1994; Ph.D., University of Nebraska-Lincoln, 2000.
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 B.A., Fontbonne College, 1964; M.A., Georgetown University, 1991; Ph.D., 1997.
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 B.S., Kings College (Pennsylvania), 1963; Ph.D., University of Notre Dame, 1967.
- ALAN KLEM, *Associate Professor of Fine and Performing Arts* (1985; 2005).  
 B.A., North Texas State University, 1970; M.F.A., Texas Christian University, 1974.
- JOSEPH A. KNEZETIC, *Associate Professor of Biomedical Sciences* (1991; 2002).  
 Ph.D., Cincinnati, 1986.
- JAMES J. KNUDSEN, *Assistant Professor of Economics* (1989); *Associate Dean of Undergraduate Business Programs, College of Business Administration* (2004).  
 B.S., Iowa State University, 1981; B.A., 1984; Ph.D., 1989.
- JO D. KOSTKA, *Assistant Professor of Nursing* (2002)  
 B.S.N., University of Nebraska, 1971; M.S., Creighton University, 1986.
- BEVERLY J. KRACHER, *Associate Professor of Business Ethics and Society* (1990; 2003).  
 B.A., University of Nebraska, 1974; M.A., 1984; Ph.D., 1991.
- MARIA C. KRANE, *Executive Director of International Programs* (2000); *Adjunct Associate Professor of Education* (2000).  
 B.A., Faculdade de Filosofia, Ciências e Letras "Imaculada Conceicao" of the Universidade Federal de Santa Maria (Brazil), 1962; Licenciado em Letras, 1963; M.A.T., Indiana University-Bloomington, 1967; Ed.D., Mississippi State University, 1994.
- JACK L. KROGSTAD, *Professor of Accounting* (1980; 1985).  
 B.S., Union College, 1967; M.B.A., University of Nebraska-Lincoln, 1971; Ph.D., 1975; C.P.A., Texas, 1976.
- THOMAS A. KUHLMAN, *Associate Professor Emeritus of English* (1967; 1970).  
 B.A., Xavier University, 1961; M.A., Brown University, 1963; Ph.D., 1967.
- MARY V. KUNES-CONNELL, *Associate Professor of Nursing* (1980; 1995); *Chairman of the Traditional Nursing Program* (1998); *Associate Dean of Academic and Clinical Affairs* (2003); *Associate Dean for Academic and Clinical Affairs: Graduate and Undergraduate Programs* (2006).  
 B.S.N., Creighton University, 1977; M.S.N., University of Nebraska-Lincoln, 1979; Ph.D., University of Nebraska-Lincoln, 1991.
- JENNIFER LADINO, *Assistant Professor of English* (2006).  
 B.A., University of Virginia, 2001; M.A., University of Washington, 2001; Ph.D., 2006.
- ANTOINETTE M. LAGUZZA, *Assistant Professor of Nursing* (1975).  
 B.S.N., University of Nebraska, 1970; M.S., University of California at San Francisco, 1975.
- PATRICK G. LAMBERT, *Assistant Professor of Exercise Science and Athletic Training* (2002).  
 B.S., Alma College, 1998; M.A., Ball State University, 1990; Ph.D., University of Iowa, 2001.
- JOAN M. LAPPE, *Professor of Nursing* (1984; 2001).  
 B.S.N., University of Nebraska Medical Center, 1981; M.S., Creighton University, 1985; Ph.D., University of Nebraska Medical Center, 1992.

- ANN LAUGHLIN, *Assistant Professor of Nursing* (1994; 2002).  
B.S.N., Creighton University, 1976; M.S., Creighton University, 1994; Ph.D., University of Nebraska-Lincoln, 2005.
- MICHAEL G. LAWLER, *Professor Emeritus of Theology* (1969; 2005); *Dean Emeritus of the Graduate School* (1995).  
B.S., National University (Ireland), 1955; Diploma in Education, 1957; B.D., Pontifical Gregorian University (Rome), 1961; S.T.L., 1963; Diploma, International Catechetical Centre (Belgium), 1968; Ph.D., Aquinas Institute of Theology, 1975.
- BAZIL N. LAZURE, *Associate Professor Emeritus of Natural Science* (1946; 1977).  
B.S., Creighton University, 1934; M.S., 1939.
- LINDA L. LAZURE, *Associate Professor of Nursing* (1976; 1995); *Associate Dean for Student Affairs* (1996).  
B.S.N., University of Nebraska, 1975; M.S.N., 1979; Ph.D., University of Nebraska Medical Center, 1993.
- GARY K. LEAK, *Professor of Psychology* (1979; 2002); *Chair, Department of Psychology* (2003).  
B.S., University of Washington, 1971; Ph.D., University of Nebraska-Lincoln, 1975.
- TRACY N. LEAVELLE, *Assistant Professor of History* (2003).  
A.B., Dartmouth College, 1992; Ph.D. Arizona State University, 2001.
- MARC A. LEFEBVRE, *Adjunct Lecturer, College of Business Administration* (2001)  
B.A., University of Colorado, Boulder, 1987; M.S., Boston College, 1988; CFA.
- MICHAEL C. LEGASPI, *Assistant Professor of Theology* (2006).  
B.A., Johns Hopkins University, 1995; Ph.D., Harvard University, 2006.
- JAMES L. LEIGHTER, *Instructor of Communications Studies* (2006).  
B.S., Northwest Missouri State University, 1995; M.A., University of Nebraska-Omaha, 2003.
- TOM D. LEWIS, *Associate Professor of Accounting* (1981; 1985); *Chair, Department of Accounting* (2006).  
B.A., University of Nebraska-Lincoln, 1968; M.B.A., 1972; C.P.A., Nebraska, 1978; Ph.D., 1979; C.M.A., 1981.
- SANDOR LOVAS, *Associate Professor of Biomedical Sciences* (1990; 2002).  
Ph.D., Szeged (Hungary), 1985.
- JAMES V. LUPO, *Associate Professor of Psychology* (1977; 1983).  
B.A., University of Notre Dame, 1972; M.A., 1975; Ph.D., 1977.
- JEFFERY MACIEJEWSKI, *Associate Professor of Journalism and Mass Communication* (1999; 2005).  
B.S., Cardinal Stritch College, 1991; M.A., Marquette University, 1995; Ph.D., 2000.
- DAVENDER S. MALIK, *Professor of Mathematics* (1985; 2000).  
B.A., Delhi University (India), 1978; M.A., 1980; M.S., Ph.D., Ohio University, 1985.
- BRUCE J. MALINA, *Professor of Theology* (1969; 1975).  
B.A., St. Francis College (Wisconsin), 1956; S.T.L., Pontifical Antonian Atheneum (Rome), 1964; S.S.L., Pontifical Biblical Institute (Rome), 1966; S.T.D., Studium Biblicum Franciscanum (Jerusalem), 1967; S.T.D. (hon.), University of St. Andrew, (Scotland), 1995.
- JULIE MANZ, *Instructor of Nursing* (2005).  
B.S.N., Creighton University, 1998; M.S., 2005.
- ROBERT P. MARBLE, *Associate Professor of Decision Sciences* (1983; 1988).  
B.A., Boston College, 1973; M.S., University of Illinois at Urbana-Champaign, 1979; Ph.D., 1981.
- JASON T. MARTINELLI, *Assistant Professor of Atmospheric Sciences* (2004).  
B.S., State University of New York-Albany, 1998; M.S., Saint Louis University, 2001, Ph.D., Saint Louis University, 2003.

- BRUCE M. MATTSON, *Professor of Chemistry* (1977; 1994).  
B.A., Southwest Minnesota State University, 1973; Ph.D., University of Minnesota-Minneapolis, 1977.
- M. CHAD MCBRIDE, *Assistant Professor of Communication Studies* (2003).  
B.S., Texas Christian University, 1996; M.S., Texas Christian University, 1999.
- BRITTA MCEWEN, *Assistant Professor of History* (2005).  
B.A., Scripps College, 1995; M.A., University of California-Los Angeles, 1998; Ph.D., 2003.
- GEORGE W. MCNARY, *Assistant Professor of Business Law* (1983; 1985).  
B.S.B.A., Creighton University, 1975; M.B.A., 1977; J.D., 1980.
- THOMAS S. MCSHANE, S.J., *Assistant Professor of Physics* (1963; 1966).  
B.A., Spring Hill College, 1954; M.S., St. Louis University, 1956; S.T.B., 1961.
- SR. MARY KAY MEAGHER, *Assistant Professor of Nursing* (1997).  
B.S.N., Marillac College, 1963; M.S.N., Loyola University, 1969; F.N.P., University of Texas Health Science Center, 1977.
- PHILIP J. MEEKS, *Associate Professor of Political Science* (1992).  
B.A., University of Notre Dame, 1972; Ph.D., University of Texas at Austin, 1980.
- GINA MERYSS, *Assistant Professor of English* (2006).  
B.A., Rockhurst University, 1999; M.A., Creighton University, 2001; Ph.D., St. Louis University, 2006.
- GARY D. MICHELS, *Associate Professor of Chemistry* (1986; 1993).  
B.S., Creighton University, 1971; Ph.D., Iowa State University, 1978.
- KRISTINE O. MILLER, *Adjunct Assistant Professor of Nursing* (2002).  
B.S.N., UNO, 1971; M.S.N., UNO, 1980.
- RICHARD W. MILLER, *Instructor of Theology* (2005).  
B.A., University of Notre Dame, 1992; M.A., Boston College, 1996.
- LAURA A. MIZAU, *Adjunct Instructor of Accounting* (2006).  
B.S., Illinois State University, 1989; C.P.A., Illinois and Nebraska, 1989; MFM., University of Queensland, 2000.
- ROBERT H. MOORMAN, *Professor of Management* (2000; 2004); *Robert B. Daugherty Endowed Chair of Management* (2000).  
B.A., The College of Wooster-Wooster, OH, 1983; M.B.A., Indiana University, 1989; Ph.D., 1990.
- GERI MOORE, *Instructor of Exercise Science and Athletic Training* (1995; 2000).  
B.S., University of Nebraska-Lincoln, 1987; M.A., University of Nebraska-Omaha, 1988.
- JOHN N. MORDESON, *Professor of Mathematics* (1963; 1971); *Chair, Department of Mathematics* (2005).  
B.S., Iowa State University, 1959; M.S., 1961; Ph.D., 1963.
- JOAN L. MUELLER, *Professor of Theology* (1995; 2006).  
B.M., Silver Lake College, 1983; M.M., University of Wisconsin, Milwaukee, 1986; M.Chr. Sp. Creighton University, 1989; Ph. D., Duquesne University, 1992.
- DENNIS MURPHY, CPT., United States Army; *Assistant Professor of Military Science* (2006).  
B.S., Creighton University, 1996; M.A., University of Oklahoma, Norman, 2000.
- J. PATRICK MURRAY, *Professor of Philosophy* (1979; 1994).  
B.S., Marquette University, 1970; Ph.D., St. Louis University, 1979.
- REBECCA K. MURRAY, *Assistant Professor of Sociology* (2005).  
B.S., Creighton University, 1996; M.A., University of Nebraska-Omaha, 2002; Ph.D., 2005.
- N. R. VASUDEVA MURTHY, *Professor of Economics* (1979; 1995).  
B.A., University of Mysore (India), 1961; M.A., 1963; Ph.D., State University of New York at Binghamton, 1975.



- PREMCHAND S. NAIR, *Professor of Computer Science* (1989, 2003).  
Ph.D., Kerala University (India), 1985; Ph.D., Concordia University (Canada), 1989.
- RAVINDER NATH, *Professor of Information Systems and Technology* (1998); *Chair, Department of Information Systems and Technology* (1998); *Joan and Jack McGraw Endowed Chair in Information Technology Management* (2001); *Associate Dean of Graduate Programs, College of Business Administration* (2004).  
B.A., Panjab University, 1972; M.A., Panjab University, 1974; M.S., Wichita State University, 1975; Ph.D., Texas Tech University, 1980.
- MICHAEL G. NICHOLS, *Associate Professor of Physics* (1999; 2006).  
B.S., Harvey Mudd College, 1990; M.A., University of Rochester, 1992; Ph.D., 1996.
- HARRY NICKLA, *Professor of Biology* (1970; 1982).  
B.S., Arizona State University, 1967; Ph.D., 1971.
- LANCE W. NIELSEN, *Assistant Professor of Mathematics* (2000).  
B.S., University of South Dakota, Vermillion, 1981; M.S., University of New Hampshire, 1984; Ph.D., University of Nebraska-Lincoln, 1999.
- PATRICIA NILSSON, *Assistant Professor of Nursing* (1980; 1984).  
B.S.N., Creighton University, 1978; M.S.N., 1983.
- THOMAS O. NITSCH, *Professor of Economics* (1960-63; 1966; 1969); *Professor Emeritus* (1998).  
B.B.A., St. Mary's University, 1953; Ph.D., Ohio State University, 1963.
- ANNA L. NOLETTE, *Assistant Professor of Nursing* (2003; 2006).  
B.S.N., Russell Sage College, 1986; M.S.N., University of Cincinnati, 1998
- JOAN F. NORRIS, *Professor of Nursing* (1978; 1990); *Associate Dean for Research and Evaluation* (1997).  
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- RICHARD L. O'BRIEN, *University Professor, Creighton Center for Health Policy and Ethics and Department of Medicine, School of Medicine and Director of the Office of Interprofessional Education for Health Sciences* (1982).  
M.S., Creighton University, 1958; M.D., 1960.
- EDWARD B. O'CONNOR, *Professor Emeritus of Education* (1957; 1996).  
Ph.D., Creighton University, 1943; M.A., University of Nebraska, 1949; Ph.D., 1954.
- CATHERINE O'KEEFE, *Assistant Clinical Professor, C.S., of Nursing* (2002)  
B.S.N., Creighton University, 1975; M.S., 1985.
- JOHN J. O'KEEFE, *Associate Professor of Theology* (1992; 1998); *Chair, Department of Theology* (1998).  
B.A., Stetson University, 1983; M.T.S., Weston School of Theology, 1988; M.A., Catholic University of America, 1990; Ph.D., 1993.
- LYNN OLSON OLTMANN, *Assistant Professor of Education* (1998).  
B.S., University of Nebraska-Omaha, 1973; M.S., 1978; Ph.D., University of Nebraska-Lincoln, 1992.
- FRANCIS X. ORIGANTI, *Assistant Professor of Social Work* (2004)  
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- JANE PARKS, *Assistant Professor of Nursing* (1992); *Coordinator of LEAP and ANC Programs* (2002).  
B.S.N., Marymount College, 1977; M.S.N., University of Nebraska Medical Center, 1979.
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B.S.N., Creighton University, 1976; M.S.N., University of Nebraska Medical Center, 1982; Ph.D., University of Nebraska-Lincoln, 2004.

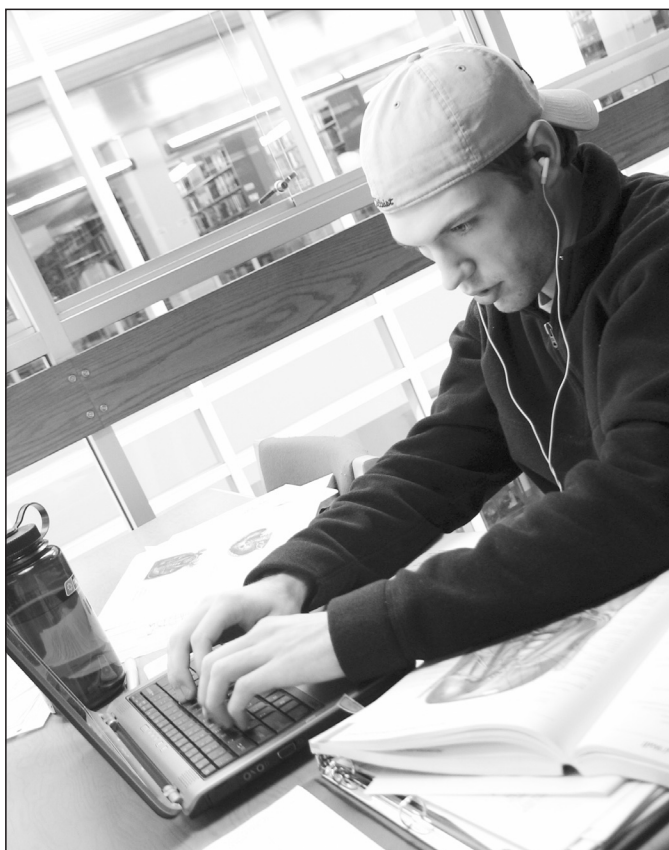
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Ph.D., Meharry Medical College, 1984.
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