

CREIGHTON UNIVERSITY BULLETIN

2012-2013 ISSUE *UNDERGRADUATE ISSUE*

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

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FIRST SEMESTER, 2011-2012

2011		
August	20, <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.
	22-23, <i>Mon.-Tues.</i>	8:30 a.m.-4 p.m. Late Registration in the Registrar's Office.
	24, <i>Wednesday</i>	Classes begin.
	24-30, <i>Wed.-Tues.</i>	8:30 a.m.-4 p.m. Class Schedule Changes and Late Registration. Registrar's Office.
	30, <i>Tuesday</i>	Last day for late registration and class schedule changes.
September	5, <i>Monday</i>	Labor Day Holiday - no classes.
	14, <i>Wednesday</i>	Mass of the Holy Spirit. 11 a.m.
	22, <i>Thursday</i>	Last day to change from credit to audit. Last day to apply for Pass/No Pass status.
October	13, <i>Thursday</i>	Last day for filing applications for degrees to be conferred at the end of the First Semester.
	15, <i>Saturday</i>	Fall Recess begins after last class, clinic, or laboratory.
	18, <i>Tuesday</i>	Mid-semester grade reports from instructors due in Registrar's Office by 12 p.m.
	24, <i>Monday</i>	Classes resume, 7:30 a.m.
	31, <i>Monday</i>	Last day to withdraw from courses with a "W."
November	22, <i>Tuesday</i>	Thanksgiving recess begins after last class, clinic or laboratory.
	24, <i>Thursday</i>	Thanksgiving Day Mass, 9 a.m. St. John's Church.
	28, <i>Monday</i>	Classes resume, 7:30 a.m.
December	12, <i>Monday</i>	Final copy of Master's Thesis due in Graduate School Office for those expecting graduate degrees to be conferred at the end of the First Semester.
	12, <i>Monday</i>	Final semester examinations begin.
	17, <i>Saturday</i>	Last day of required attendance of First Semester. Christmas—Mid-year Recess begins.
	17, <i>Saturday</i>	Mid-year Commencement.
	21, <i>Wednesday</i>	All regular grade reports due to Registrar's office.

(<http://www.creighton.edu/Calendar>)

SECOND SEMESTER, 2011-2012

2012

January	9-10, <i>Mon.-Tues.</i>	8:30 a.m.-4 p.m. Late Registration in the Registrar's Office.
	11, <i>Wednesday</i>	Classes begin.
	11-17, <i>Wed.-Tues.</i>	8:30 a.m.-4 p.m. Late Registration in the Registrar's Office.
	17, <i>Tuesday</i>	Last day for late registration and class schedule changes.
February	5, <i>Sunday</i>	Mass for Founders Week: Past, Present and Future. St. John's Church. (<i>Time to be announced</i>)
	9, <i>Thursday</i>	Last day to change from credit to audit. Last day to apply for Pass/No Pass status.
	13, <i>Monday</i>	Last day for filing applications for degrees to be conferred at end of Second Semester.
March	3, <i>Saturday</i>	Spring recess begins after last class, clinic or laboratory.
	6, <i>Tuesday</i>	Mid-semester grade reports from instructors due to the Registrar's Office by 12 p.m.
	12, <i>Monday</i>	7:30 a.m. Classes resume.
	19, <i>Monday</i>	Last day to withdraw from courses with a "W."
April	5, <i>Thursday</i>	Holy Thursday—classes suspended from 5 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 copy of Master's Thesis due in Graduate School Office for those expecting graduate degrees to be conferred at the end of the Second Semester.
May	30, <i>Monday</i>	Final semester examinations begin.
	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.

(<http://www.creighton.edu/Calendar>)

SUMMER SESSION, 2012

May	14, <i>Monday</i>	On-campus registration for May Session: 8:30 a.m.-4 p.m. Registrar's Office. May Session classes begin 9 a.m.
	15, <i>Tuesday</i>	Last day for May 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 May Session.
	18, <i>Friday</i>	Last day to withdraw from May Session with "W."
June	28, <i>Monday</i>	Memorial Day - No classes.
	1, <i>Friday</i>	May Session final examinations; May 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 from instructors 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.
	25, <i>Monday</i>	Last day to withdraw from Term 1 course with a "W."
July	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.
	16, <i>Monday</i>	Last day to change from credit to audit or to apply for Pass/No Pass status for Term 2.
August	30, <i>Monday</i>	Last day to withdraw from Term 2 with "W."
	9, <i>Thursday</i>	Final examinations; Term 2 ends.
	9, <i>Thursday</i>	Final copy of Master's Thesis due in Graduate School Office for those expecting graduate degrees to be conferred at the end of the Summer Semester.
	13, <i>Monday</i>	Term 2 final grade reports from instructors due to Registrar's Office by 9 a.m.

(<http://www.creighton.edu/Calendar>)

FIRST SEMESTER, 2012-2013

2012		
August	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.
September	3, <i>Monday</i>	Labor Day Holiday - no classes.
	12, <i>Wednesday</i>	Mass of the Holy Spirit. 11 a.m.
	20, <i>Thursday</i>	Last day to change from credit to audit. Last day to apply for Pass/No Pass status.
October	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.
	16, <i>Tuesday</i>	Mid-semester grade reports from instructors due in Registrar's Office by 12 p.m.
	22, <i>Monday</i>	Classes resume, 7:30 a.m.
	29, <i>Monday</i>	Last day to withdraw from courses with a "W."
November	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.
December	10, <i>Monday</i>	Final copy of Master's Thesis due in Graduate School Office for those expecting graduate degrees to be conferred at the end of the First Semester.
	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/Calendar>)

SECOND SEMESTER, 2013-2014

2013

January	14-15, <i>Mon.-Tues.</i>	8:30 a.m.-4 p.m. Late Registration in the Registrar's Office.
	16, <i>Wednesday</i>	Classes begin.
	16-22, <i>Wed.-Tues.</i>	8:30 a.m.-4 p.m. Late Registration in the Registrar's Office.
	22, <i>Tuesday</i>	Last day for late registration and class schedule changes.
February	9, <i>Sunday</i>	Mass for Founders Week: Past, Present and Future. St. John's Church. (<i>Time to be announced</i>)
	14, <i>Thursday</i>	Last day to change from credit to audit. Last day to apply for Pass/No Pass status.
	14, <i>Thursday</i>	Last day for filing applications for degrees to be conferred at end of Second Semester.
March	9, <i>Saturday</i>	Spring recess begins after last class, clinic or laboratory.
	12, <i>Tuesday</i>	Mid-semester grade reports from instructors due to the Registrar's Office by 12 p.m.
	18, <i>Monday</i>	7:30 a.m. Classes resume.
	25, <i>Monday</i>	Last day to withdraw from courses with a "W."
	28, <i>Thursday</i>	Holy Thursday—classes suspended from 5 p.m. March 28 to Monday, April 1
	31, <i>Sunday</i>	Easter Sunday.
April	1, <i>Monday</i>	Easter Monday. Classes resume at 5 p.m.
	1, <i>Monday</i>	Final copy of Master's Thesis due in Graduate School Office for those expecting graduate degrees to be conferred at the end of the Second Semester.
May	6, <i>Monday</i>	Final semester examinations begin.
	11, <i>Saturday</i>	Final semester examinations end. Last day of required attendance of Second Semester except for candidates for degrees.
	15, <i>Wednesday</i>	All regular grade reports due to Registrar's office.
	17, <i>Friday</i>	3 p.m. Baccalaureate Mass.
	18, <i>Saturday</i>	University Commencement.

(<http://www.creighton.edu/Calendar>)

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REV. THOMAS J. SHANAHAN, S.J.	<i>Assistant Vice President for University Relations</i>
MICHELE K. STARZYK	<i>Assistant Vice President for Student Life</i>
KATHLEEN J. BOOTON	<i>Risk Manager</i>
PATRICIA GRAFELMAN HALL	<i>University Registrar</i>
TARA MCGUIRE	<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 General Counsel to Health Sciences</i>

RADALME PEÑA	<i>Executive Director of Institute for Latin American Concern (D.R.)</i>
RAYMOND L. STOUPA	<i>Chief Financial Officer, Creighton Medical Associates</i>
RICARDO M. ARIZA, M.S.W.	<i>Director of Multicultural Affairs</i>
JOHN T. BAXTER	<i>Director of Environmental Health and Safety</i>
JAMES M. BRETEL	<i>Director of Career Services</i>
TODD R. CARLON	<i>Executive Director and Chief Executive Officer, Creighton Medical Associates</i>
JAMES P. CARTER	<i>Director of Printing Services</i>
ROBERT DENNEY	<i>Director of Kiewit Fitness Center</i>
JOSEPH D. ECKLUND Ph.D.	<i>Director of Student Success</i>
MARIA TERESA GASTON	<i>Director of Center for Service and Justice</i>
LORI K. GIGLIOTTI	<i>Communications Director, Information Technology</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>
BRENDA L. HOVDEN	<i>Director of Library Card Services/Finance Systems</i>
MICHAEL R. KELLEY., Ph.D.	<i>Director of Counseling Services</i>
MARIA C. KRANE, Ed.D.	<i>Director of International Programs</i>
MICHAEL J. LACROIX, M.L.S., M.B.A.	<i>Director of Reinert Alumni Memorial Library</i>
RYAN LAHNE	<i>Director, Skutt and Harper Centers</i>
ROBERT J. LEAHY, B.S.B.A.	<i>Director of Student Accounts</i>
CHUCK LENOSKY	<i>Director of Health Sciences Projects</i>
LOUIS M. MARCUCCIO	<i>Director of Campus Operations</i>
RICHARD J. MCAULIFFE, M.S.	<i>Director of Public Safety</i>
BRYAN S. MCLAUGHLIN	<i>Chief Security Officer, IT</i>
WADE L. PEARSON	<i>Director of Educational Opportunity Programs</i>
REV. RUSS PERRY	<i>Director of Pastoral Care, Creighton University Medical Center</i>
BRUCE D. RASMUSSEN, B.S.B.A.	<i>Director of Intercollegiate Athletics</i>
SARAH RICHARDSON	<i>Director of Admissions and Scholarships</i>
DEBRA C. SAURE, B.S., R.N.C.N.P.	<i>Director of Health Services</i>
STEVEN A. SCHOLER, J.D.	<i>Senior Philanthropic Advisor, Estate and Trust Services</i>
KATHLEEN MILLER	<i>Director of James R. Russell Child Development Center</i>
REV. DAVID L. SMITH, S.J.	<i>Director of Creighton University Retreat Center</i>
RICHARD R. SUPER	<i>Ratio Studiorum Director</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>Institutional Research</i>
KAREN T. PRIEFERT, D.O.	<i>Medical Director, Student Health Services</i>

CREIGHTON COLLEGE OF ARTS AND SCIENCES

OFFICERS OF ADMINISTRATION

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HOLLY ANN HARRIS, Ph.D., *Associate Dean*

SHARON ISHII-JORDAN, Ph.D., *Associate Dean*

ROSE M. HILL, M.P.A., *Assistant Dean*

MARK TURNER, M.Ed., *Assistant Dean*

COLLEGE OF BUSINESS ADMINISTRATION

OFFICERS OF ADMINISTRATION

ANTHONY R. HENDRICKSON, Ph.D., *Dean*

DEBORAH L. WELLS, Ph.D., *Associate Dean*

JAMES J. KNUDSEN, Ph.D., *Associate Dean*

SCHOOL OF NURSING

OFFICERS OF ADMINISTRATION

ELEANOR HOWELL, Ph.D., *Dean*

LINDA LAZURE, Ph.D., *Associate Dean*

MARY KUNES-CONNELL, Ph.D., *Associate Dean*

AMY COSIMANO, Ed.D., *Assistant Dean*

JOYCE BUNGER, B.A., *Assistant Dean*

CYNTHIA ADAMS, B.S.B.A., *Assistant Dean*

UNIVERSITY COLLEGE AND SUMMER SESSIONS

OFFICER OF ADMINISTRATION

GAIL M. JENSEN, 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 7,730 persons taught by 740 full-time faculty and 217 part-time 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-five percent of the University's students are enrolled in the College of Arts and Sciences, 34 percent in the health sciences professions, 8 percent in Business Administration, 5 percent in University College, 6 percent in Law, and 12 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 130-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 nearly 1 million. 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, boasts top-tier Joslyn Art Museum, the Holland Center, a world-class performing arts center and an excellent symphony and opera company. The Omaha Community Playhouse and Omaha Theater Company For Young People are among the top community theaters in the nation. 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.

Omaha not only draws national acts for major concerts, but also hosts sporting events. Creighton, an NCAA Division I school which sponsors 14 men's and women's intercollegiate sports and competes in the Missouri Valley Conference, will host the NCAA College World Series for the 63rd consecutive year in June 2012. In addition, the Olympic Swimming Trials, March Madness and NCAA Final Four Volleyball Tournament all have recently been here.

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. Qwest Center Omaha is home to the Bluejay basketball team and numerous concerts and an impressive pedestrian bridge spans the Missouri River from Nebraska to Iowa. The Gallup organization and Union Pacific built their new headquarters here, as did First National Bank, which occupies 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. Omaha is widely considered to be one of the safest cities in the U.S. with a low unemployment rate, thriving economy and lively downtown.

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 thirty-two laypersons and six 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, communication studies, computer science, creative writing, health administration and policy, liturgy, mathematics, ministry, 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. For more information call 1-800-637-4279 or at <http://www.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, enrolling more than 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 26,408 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.

UNIVERSITY ASSESSMENT OF LEARNING OUTCOMES

The University Assessment Committee has articulated six university-level outcomes that are common to all undergraduate, graduate, and professional student experience.

All Creighton graduates will demonstrate:

1. disciplinary competence and/or professional proficiency,
2. critical thinking skills,
3. Ignation values, to include but not limited to a commitment to an exploration of faith and the promotion of justice,
4. the ability to communicate clearly and effectively,
5. deliberative reflection for personal and professional formation,
6. the ability to work effectively across race, ethnicity, culture, gender, religion, and sexual orientation.

Each undergraduate program defines its learning goals/graduate outcomes, and these outcomes should be in alignment with each school or college's goals as well as the broader university-wide goals. A variety of outcome measures are used within each of the graduate programs to provide evidence of student learning, and to assess how well the learning goals/graduate outcomes are being met.

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 Life, 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, religion, sex, national origin, age, disability, marital status, sexual orientation, or veteran status. 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 first-time, full-time students who enrolled in Fall 2005 and for whom 150% of the normal time-to-completion has elapsed.

During the fall semester of 2005, 972 first-time, full-time degree-seeking Undergraduate students entered Creighton University. After six years (as of August 31, 2011) 77% of these students had graduated from our institution or completed their programs. Questions related to this report should be directed to: Patricia Grafelman Hall, 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 on Pharmacy Education, the Accreditation Council for Occupational Therapy Education, and the Commission on Accreditation in Physical Therapy Education.

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. Since 2000, the University has invested more than \$285 million in on-campus improvements and planned expansion. 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

Creighton's dramatic campus improvements are enhancing the learning and residential experience of our students. Impressive state-of-the-art "smart" classrooms, labs, spacious residential living, dynamic new recreational facilities, a great student life and learning center, as well as new parking structures are all adding to the vital Creighton experience.

The Mike and Josie Harper Center for Student Life and Learning is Creighton's front door, warmly welcoming prospective students and their families, alumni and all campus visitors. The Harper Center is the nucleus of Creighton's dynamic eastward expansion and campus transformation, uniting academic and student-life services under one roof. Also on campus is the Wayne and Eileen Ryan Athletic Center and D.J. Sokol Arena. The 78,134 square-foot facility is the home for Creighton's women's volleyball and basketball programs with a court arena seating of 2,950. The facility also includes coaches offices, locker rooms, ticket offices, athletic training, meeting rooms and a media workroom.

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. 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.

The Hixson-Lied Science Building is connected to both Criss and Rigge and provides classrooms, common use areas, Arts and Sciences administrative functions, and offices and classrooms for undergraduate science departments.

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.

University 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	243,924 Volumes	51,767 Microforms
	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 during their first two years 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 the Omaha area 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 Life-Residence Life by July 15th for requests for the upcoming Fall Semester (April 1 for Opus Hall and Davis Square students) and December 1 for the Spring Semester. Only the Associate Vice President for Student Life 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 nine residence halls. Deglman, Kiewit, and Gallagher Halls are traditional-style freshman residence halls with common bathroom facilities. Rooms are double occupancy. 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. McGloin Hall is also a suite-style hall with four sophomore students per suite. Kenefick Hall is an apartment-style hall for sophomores with double-occupancy efficiency and one-bedroom apartments. Davis Square and Opus Hall, 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 double-occupancy efficiency, one-bedroom, and two-bedroom apartments open to sophomore, junior and senior undergraduates. A limited number of apartments is available to students with families and graduate/professional students. Residents of Davis Square and Opus Hall, as well as Heider residents who are graduate/professional students, married, or have families, sign a 12-month lease. All other students contract 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. All freshman and sophomore residents are required to have a meal plan. Students living in Deglman, Gallagher, Kiewit, Swanson, and McGloin Halls must choose from 12, 15, or 19 meals per week. Kenefick Hall residents and sophomores living in Heider must select from these three plans or the SuperFlex meal plan. Residents of Davis Square, Opus Hall, and Heider Hall (except sophomores) may purchase 12, 15, or 19 meals per week, the Super Flex meal plan or the Flex meal 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 Life-Residence Life for review. Generally, the University Dining Services is able to meet most dietary needs. 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 other campus retail locations 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 2011 are:

Building Type	Room	Annual Rate
Deglman, Kiewit & Gallagher Halls (Freshmen)	Double	\$5262
	Private (if available)	\$7750
Swanson Hall (Freshmen and Sophomores)	Double	\$5500
	Private (if available)	\$8084
McGloin Hall (Sophomores)	Double	\$5674
	Private (if available)	\$8430
Kenefick Hall (Sophomores)	Efficiency Apartment	\$5674
	1 Bedroom Apartment	\$5754
	Private Efficiency Apt.	\$8430
Heider Hall (9 month) (Sophomores, Juniors, Seniors)	Efficiency Apartment	\$5674
	Standard 1 Bedroom Apartment	\$5714
	Large 1 Bedroom Apartment	\$5754
	Two Bedroom Apartment	\$5800
	Private Efficiency Apt.	\$8430
Davis Square - 12 month contract (Juniors and Seniors)	2/3/4 Bedroom Apartment	\$644/m
Opus Hall - 12 month contract (Juniors and Seniors)	2/3/4 Bedroom Apartment	\$644/m
Heider Hall-12 month contract (Graduate and family housing)	Efficiency Apartment	\$731/m
	Standard 1 Bedroom Apartment	\$796/m
	Large 1 Bedroom Apartment	\$840/m
	Two Bedroom Apartment	\$950/m

Board Plans Type	Annual Rate
19 Meals/per week and 40 Dining Dollars/per semester	\$3976
15 Meals/per week and 100 Dining Dollars/per semester	\$3976
12 Meals/per week and 160 Dining Dollars/per semester	\$3976
SuperFlex - Any 120 meals/200 Dining Dollars per semester*	\$2076
Flex - Any 60 meals/200 Dining Dollars per semester**	\$1246

* Available to Kenefick, Heider, Davis, Opus, Off-Campus Only

** Available to Davis, Opus, Heider (except sophomores), Off-Campus Only

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.

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 Life-Residence Life. Questions regarding housing services and facilities may be directed to the Department of Residence Life, Harper Center for Student Life and Learning; telephone (402) 280-3900.

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 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 or access www.creighton.edu/childdevelopmentcenter for information.

UNIVERSITY PUBLICATIONS

AlumWire, an e-newsletter published monthly for Creighton alumni.

Creighton Today is updated Monday-Friday and is available at <http://today.creighton.edu/>. Given priority for inclusion in this employee online newsletter are: campus and Creighton community news, human resources information, professional development opportunities, research and scholarship, and faith and spirituality. Please submit items via the website 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 undergraduate Admissions 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, Media and Computing 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, an e-newsletter published four times a year for Medical School alumni.

The Dental Dean's Newsletter, published twice a year for School of Dentistry alumni, including an e-newsletter format.

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

Creighton Parent, an e-newsletter for parents of Creighton students distributed five 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.

Creighton University Magazine is a quarterly magazine produced by the Marketing and 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.

University Fact Book, annual update that contains the Common Data Set and general information about the University. <http://www.creighton.edu/aea/institutionalresearch>.



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 200 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 Skutt 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	International Relations Club
American Advertising Federation	Math Club
American Marketing Association	Minority Association of Pre-Health Students
Biology Club	Oratorical Society
Chamber Choir	Peer 2 Peer Mentoring
Collegiate Entrepreneur's Organization	Phi Beta Lambda: Business
Creighton Students for Life	Pre-Dental Society
Creightones	Pre-Law Organization
Crocheting and Knitting Club	Pre-Medical Society
CU Atmospheric Science Society	Pre-Occupational Therapy Club
CU Student Nurses' Association	Pre-Pharmacy Club
CU Mock Trial Team	Pre-Physical Therapy Club
CU Student Organization of Social Workers	Pre-Vet Club
Emergency Medical Services Club	Public Relations Student Society of America
Environmental Science Club	Ranger Challenge Organization
Exercise Science Excellence in Leadership	Skeptical Thinkers and Rationalists
Green Jays	Society of Physics Students
Health Administration and Policy Student Association	Student Art League
History Club	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 Student Association	Hui O Hawaii
Asian Student Association	Indian Cultural Society
Chinese Student Association	International Student Association
CU African-American Student Association	Italian Club
CU Latino Student Association	Korean Student Association
C-Unity	Native American Association
Gender and Sexuality Alliance	Russian Club
German-American Club	Spanish 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
Graduate Student Government	
Inter Residence Hall Government	

Greek

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

Association of Minority Greek Organizations	Phi Kappa Psi
Delta Delta Delta	Pi Beta Phi
Delta Zeta	Pi Kappa Alpha
GAMMA	Sigma Alpha Epsilon
Gamma Phi Beta	Sigma Lambda Gamma
Kappa Kappa Gamma	Sigma Phi Epsilon
Lamda Theta Nu, Inc.	Theta Phi Alpha
Phi Delta Theta	

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 Psi Omega	Omicron Delta Kappa: Leadership
Alpha Sigma Nu: Jesuit	Order of Omega: Greek Life
Beta Alpha Psi: Accounting	Phi Sigma: Biology
Eta Sigma Phi: Classics	Phi Sigma Tau: Philosophy
Financial Management Association	Psi Chi: Psychology
Freshman Leadership Program	Sigma Tau Delta: English
National Society of Collegiate Scholars	

Political

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

Amnesty International	NAACP, College Chapter
College Democrats	Peace and Justice Cooperative
College Republicans	

Publications

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

Shadows

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.

Catholic Student Organization	Rosary Club
InterVarsity Christian Fellowship	Student Jewish Organization
Jays for Christ	Student Ministry Team
Muslim Student Association	

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.

Abre los Ojos	Law School Republicans
Academy of Students Pharmacists	Magis Medical Clinic
Advocates	Married to Medicine
American Constitution Society	Medical Spanish Club
American Medical Association	Military Medical Student Association
American Medical Student Association	Multicultural Health Sciences Students Association
American Medical Women's Association	National Community Pharmacists Association
Anesthesiology Interest Group	Ophthalmology Grand Rounds
Asian Law Students Association	Orthopedics Club
Asian Pacific American Medical Students Association	Otolaryngology Club (ENT Interest Group)
Black Law Student Association	Partners Against Cancer
Body Basics	Pediatrics Interest Group
Business Law Society	Perinatal Experience
Cancer SUCKS	Phi Alpha Delta: Law
Catholic Medical Students Association	Phi Delta Chi: Pharmacy
Christian Medical and Dental Society	Phi Delta Phi: Law
Creighton Eye Society	Phi Lambda Sigma: Pharmacy
Creighton Law Ambassadors	Phi Rho Sigma Medical Society
Creighton Law Ambulance Chasers	Physical Medicine and Rehab Club
CU Medical School Ob-Gyn Society	Physical Therapy for Pediatrics
CU Student American PT Association	Physical Therapy Leadership Guild
CU Student OT Association	Pi Theta Epsilon: Occupational Therapy
Dermatology Interest Group	Project CURA (Creighton United in Relief Efforts)
Emergency Medicine Interest Group	Public Interest Law Forum
Environmental Law Society	Radiology Interest Group
Family Medicine Interest Group	Rho Chi: Pharmacy
Federalist Society	Running Buddies
Fellowship of Christian Law Students	Saint Thomas More Society
Fit for Life	Society for the Humanities in Medicine
Gay/Straight Law Alliance	Sports and Entertainment Law Society
Geriatrics Physical Therapy Organization	Sports Physical Therapy Association
Graduate Clinical Anatomists	Student Empowerment Network
Intellectual Property Society	Student National Dental Association
Internal Medicine Club	Student National Medical Association
International Law Society	Surgery Interest Group
J. Reuben Clark Law Society	Vietnamese Student Organization
Kappa Psi Pharmaceutical Fraternity	Wilderness Medical Society
Latino Law Students Association	Women's Dental Alliance
Law School Democrats	Women's Law Students Association

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	Habitat for Humanity Creighton Chapter
Best Buddies of America	Jesuit Universities Humanitarian Action Network
Big Jays, Lil Jays	Knights of Columbus
Brighton Buddies	Magis Ambassadors
Campus Kitchen	Network Against Malaria
Campus Red Cross	Peer Education at Creighton
Colleges Against Cancer	To Write Love on Her Arms
El Legado de Compasion	
Face AIDS	

Social

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

Birdcage

Blue Crew

CSU Program Board

Pep Band

Swing Dance Society

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 Lacrosse Club

Bluejay Soccer Club

Bowling Club

Club Hockey Team

Dance Team

Martial Arts Club

Outdoor Adventure Club

Rowing Association

Rugby Club

Running Club

Ski and Snowboard Club

Ultimate Frisbee Organization

Volleyball Club

Women's Lacrosse

Women's Ultimate Frisbee Organization

Women's Volleyball Club

CAMPUS RECREATION

The Kiewit Fitness Center is located at the heart of campus with access from four residence halls and the Skutt Student Center.

The Fitness Center has a main activity area which comprises five separate multi-use courts designed for basketball, volleyball, tennis, indoor soccer, and badminton. Court space must be reserved at least 24 hours in advance, space permitting, for special events. The running track (1/7 to a mile) permits jogging while the five courts are in use. The court and track area may be viewed from the pedestrian walk through.

Other areas in the Center include a 6,200 sq. ft. Fitness and Weight Training room, four racquetball courts and a multipurpose room. Campus Recreation offers many fitness classes and services including Personal Training, for students, faculty staff, and alumni members. The department provides many student employment opportunities.

Creighton's Intramural Sports program offers on campus competition based on the varying abilities of the participants. Activities such as flag football, soccer, volleyball, softball, and basketball are offered for both competitive and recreational teams in Men's, Women's and Co-Rec leagues. Intramural activities are played in the Kiewit Fitness Center, and CU Sports Complex. For more information on IM Sports check out the web site: <http://www.creighton.edu/campusrecreation/im/>

Sports Clubs are also a popular outlet for students. Sports Clubs provide multiple opportunities for students to become involved with competition with other colleges in non-varsity activities such as dance, ice hockey, lacrosse, soccer, rowing, rugby, volleyball, ultimate frisbee, and mixed martial arts.

The FitNest located in the Harper Center for Student Life and Learning is a 7,000 sq. ft. fitness area is a popular work out place. The FitNest has locker rooms, free weights, cardio machines, stretching mats and a massage chair.

For more information on Campus Recreation please stop by the main office in Room 211 of the Kiewit Fitness Center (402-280-2848) or check the web site at: <http://www.creighton.edu/studentlife/campusrecreationintramurals/>.

RELIGIOUS

Campus Ministry is central to our University's mission: Creighton exists for students and for learning. Inasmuch as intellectual formation profoundly affects students' faith formation, Campus Ministry exists to accompany students in their journeys of faith, and to help them integrate their knowledge and love of God with their lives of service to others. As Catholic, Creighton is dedicated to the pursuit of truth in all its forms and is guided by the living tradition of the Church. As Jesuit, Creighton University participates in the tradition of the Society of Jesus, a religious order founded by St. Ignatius of Loyola, whose companions gave witness to their love of Jesus Christ through service to others in many acts of Christian charity. In terms of the Jesuits' educational apostolate, formation of students to become "agents of change" in the world is paramount. Students learn to promote a "faith that does justice," to be "women and men for others," and to bring "Good News for the poor," i.e., the mission of Jesus, into their daily lives. As comprehensive, Creighton's education is directed to the intellectual, social, spiritual, and physical aspects of students' lives as they continue their vocations after graduation.

The Campus Ministry staff consists of professional lay ministers assisted by Jesuit priests, and occasionally student interns who desire the opportunity to explore professional ministry as their life calling. Our offices are located in Lower Swanson Hall.

Campus Ministry offers a comprehensive retreat program, individual spiritual direction, faith-sharing communities called Christian Life Communities (CLC), featured faith and social events, discussion groups, and sacramental preparation through St. John's parish, including the Right of Christian Initiation for Adults (RCIA) and marriage preparation.

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, and 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. Students are welcome to visit the Campus Ministry offices located on the ground floor of Swanson Hall.

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 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

Creighton University seeks to maintain lifelong relationships with former students of the University. The Creighton University Alumni Association, formed in 1892, assists the University in keeping alumni engaged with the institution. 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 Alumni Association is governed by the National Alumni Board. This board represents the alumni community in matters affecting the University; supports and assists the University in fulfilling its strategic goals; and provides services, programs and support consistent with the Alumni Association's mission.

Alumni programs vary widely and include all-University events, class reunion activities, spiritual direction, community service projects, college/school specific activities, young alumni activities, regional events, career networking and social networking. A Student Alumni Association also exists to introduce students to the activities of the Alumni Association while attending the University. Program plans, along with information on the Alumni Association, can be found on the web at <http://www.creighton.edu/alumni>.

INTERNATIONAL EDUCATION

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 supports the University's mission by providing learning opportunities and services that foster cross-cultural awareness, facilitate intercultural communications, and enhance knowledge about world cultures and societies.

The OIP carries out its mission through the administration of programs and services that support international students and scholars, learners of English as a second language, study abroad, linkages with international organizations and institutions, and the faculty in their efforts to internationalize the curriculum.

Moreover, the OIP is Creighton's link to the U.S. Departments of State and Homeland Security. The authorized OIP staff processes all documentation that facilitates the entry and the maintenance of status of international students and scholars at Creighton University.

International Students and Scholars

Services

The Coordinator of International Student and Scholar Services assists students and scholars from around the world prior to their arrival, throughout their stay at Creighton and beyond. Specifically, these are the services the OIP provides international students and scholars:

- F-1 and J-1 student advising on visa, personal, academic and employment matters
- J-1 Exchange Visitor Program administration
- New student and scholar orientation
- Cultural, cross-cultural and social activities

Programs

Homestay Program: The OIP coordinates academic-term, holiday, and short-term homestays for international students who want to experience family life in the United States.

Multinational Ambassador Program: MAP brings U.S. and international students together for cross-cultural exchange and social interaction.

The Intensive English Language Institute (IELI)

Creighton University has been providing instruction in English as a second language since 1979. The Intensive English Language Institute (IELI) offers five eight-week terms of instruction each year across seven levels of language skills. Guided by a team of excellent instructors, students develop the speaking, writing, reading and listening skills necessary for academic success while gaining insights into various aspects of U.S. culture. The IELI mission is to help students from different language backgrounds to communicate effectively in English, deepen their understanding of U.S. culture and prepare for the rigors of undergraduate and graduate studies.

Program Description: The IELI curriculum consists of courses in listening/speaking, reading, writing, and grammar taught on seven levels of proficiency, from high beginning to advanced. Courses on special topics are also offered to advanced students. Small classes of no more than 15 students each allow for a great deal of individual attention. During the first three days of the term, new students participate in an orientation program that includes tests to determine their most appropriate IELI level and activities that introduce them to life on campus and in Omaha. At the end of each eight-week term, students are evaluated by their instructors and promoted to the next level if they have made satisfactory progress. Certificates of attendance and completion are awarded.

Full-time enrollment in IELI is 21 or more hours of instruction a week. On the recommendation of the IELI instructors, exceptional advanced students may take 1-2 credit courses at Creighton University while enrolled in IELI.

IELI Terms and Application Deadlines:

Term 1 (mid-August to mid-October)	Apply on or before June 15
Term 2 (mid-October to mid-December)	Apply on or before August 15
Term 3 (early-January to early-March)	Apply on or before November 15
Term 4 (mid-March to mid-May)	Apply on or before January 15
Term 5 (mid-June to mid-August)	Apply on or before April 15

Entrance Requirements: IELI applicants must be at least 17 years of age and have completed high school.

The complete IELI application includes:

1. IELI Application Form.
2. Certification of Available Finances indicating funding from all sources.
3. Bank statements showing the most recent three months of activity.
4. Copy of the personal page of the applicant's passport.
5. A \$50 Application Fee payable to Creighton University. This is a one-time, non-refundable application fee. Payment may be made by sending a cashier's check or money order.
6. Certified transcripts of high school and university (if applicable) showing courses taken, including courses in English as a foreign language and grades earned.

Mail application documents and Application Fee payment to the Intensive English Language Institute, Creighton University, 2500 California Plaza, Omaha, NE, 68178, USA.

Acceptance to IELI: Once accepted into IELI, students will receive an acceptance letter and an I-20 with instructions to apply for an entry visa at their nearest U.S. Embassy or Consulate. Students must enter the U.S. on an F-1 visa, not a tourist visa.

Admission to Creighton: Admission to Creighton's IELI does not include admission to a degree program at Creighton University. Students who plan to enter Creighton University should apply for admission to the University.

Study Abroad Programs

Creighton University offers a variety of study abroad opportunities. Programs abroad vary in content, format, length, and cost. The Study Abroad Coordinator works closely with each student to select a program that meets his or her educational, professional, and personal needs. All students planning to study abroad must obtain approval from the OIP by submitting a Proposal to Study Abroad. Students should start planning their study abroad one year in advance of their term abroad. For additional information about study abroad, visit the OIP website: (www2.creighton.edu/internationalprograms) or contact studyabroadadvisor@creighton.edu

Services

Study Abroad services include:

- The Study Abroad Fair each fall
- Info sessions
- Pre-Departure Orientation and re-entry programming
- One-on-one advising
- Processing the enrollment of students, faculty and staff in supplemental insurance for travel abroad.

Programs

Creighton's Service-Learning Program Abroad-Encuentro Dominicano: Encuentro Dominicano is an academic, living-learning program integrating community based learning in a cross-cultural context. Visit the Encuentro Dominicano website (www2.creighton.edu/encuentro/) to learn more.

Faculty-Led Programs Abroad: Faculty-led summer courses are typically taught in China, England, France, Germany, Ireland, Italy, Spain, and Uganda. Most faculty-led summer programs are 2-4 weeks in duration and award 3 or 6 hours of credit.

Affiliate Programs: Through an agreement with the University of Limerick in Ireland, Creighton students can participate in a Fall or Spring semester program there. Students are fully integrated into the Irish culture, taking courses alongside Irish students. Students who are part of the Creighton Honors Program may choose to participate in the affiliate program at the University of Glasgow (Scotland) in the Fall or Spring Semester. Participants will take an Honors Course with other international students and enroll in additional courses with Scottish students.

Bilateral Exchange Programs: Sophia University is a Jesuit institution located in the heart of Tokyo, Japan. Courses in anthropology, art history, theology, history, political science, sociology, international business are taught in English; Japanese as a foreign language is available as well. Also Jesuit, Sogang University is a prestigious university in Seoul, Korea. Courses are offered in English and Korean. Creighton students may opt for a Fall or Spring enrollment. The University of Mannheim (Germany) accepts students for Fall, Spring or academic year enrollment. Courses are taught in German and subject areas include accounting, finance, management, and marketing.

Multilateral Exchange Programs: The International Student Exchange Program (ISEP) offers full-immersion study abroad opportunities in over 35 countries. Students may take courses in English or in the language of the host country while fully integrated in the host institution. Course offerings and the language of instruction vary by site. For additional information about ISEP programs, visit www.isep.org/.

Partner Program: Through AMIDEAST, Creighton students have the opportunity to study in Egypt, Jordan, Morocco, and Tunisia for a summer, semester, or year. Study areas include Arabic, French, Egyptology, and Middle Eastern studies.

Associate Programs: Creighton University students may participate in study abroad programs administered by other institutions or organizations, with approval from the OIP. These programs vary in quality; therefore, students must consult with the Study Abroad Coordinator and obtain study abroad approval from the OIP before selecting or applying to any particular program.

Exchange Agreements

The OIP coordinates international agreements with universities abroad for exchange and enrollment. It also reviews and approves agreements with embassies, ministries and organizations overseas.

Cross-Cultural Communication

Central to an education for global citizenship is the acquisition of knowledge and empathy in preparation for work among those who have different values, beliefs, and needs. The OIP staff regularly leads cross-cultural sessions as part of:

- Study Abroad Pre-Departure Orientation
- Project CURA Orientation (Medical School)
- IELL co-curricular activities

Departments can request special sessions of cross-cultural communication for specific groups.

The Office of International Programs is located on the 4th floor of the Harper Center. For information, call 402-280-2221 or visit www.creighton.edu/internationalprograms.

THE INTERNATIONAL CURRICULUM

Creighton's 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:

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

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 18.

FRESHMAN APPLICANTS

1. Applications can be requested from the Office of Undergraduate Admissions or electronically at <http://admissions.creighton.edu> or on the Common Application at www.commonapp.org.
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 Supplemental Scholarships.
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 along with information pertinent to residence hall facilities, registration procedures, and other requirements.

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 both the high school transcript and a transcript of a satisfactory record from a regionally accredited college or university. See regulations under Admission of Transfer Students on page 41. (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.

Subject	High-School Subject Pattern	
	<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 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. Besides the Subject Requirements listed previously, freshman applicants to the School of Nursing must have completed one unit of Chemistry.

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 262. 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:

2011-12 — October 22, December 10, February 11, April 14, June 9.

Following is the schedule of test dates for the SAT:

2011-12 — October 1, November 5, December 3, January 28, 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 webpage: <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

Required Documents

A complete application consists of the following documents:

1. The Common Application and supplement
2. \$40 nonrefundable application fee (waived if submitted online)
3. Counselor evaluation
4. Original TOEFL score (required if English was not the high school language of instruction).
5. Official high school transcripts
6. Certified translation of all high school transcripts (if in a language other than English)
7. Official university transcripts
8. Certified translation of all university transcripts (if in a language other than English)
9. Certification of Available Finances, including official bank letters, statements of support, and bank statements (Please follow all directions included in the Certification of Available Finances)
10. Teacher recommendation
11. Students may be required to present SAT or ACT scores
12. Certificates, diplomas, or examination results marking completion of secondary education or preparation for higher education (e.g., IB or national exam results)

English Language Proficiency

TOEFL scores must be submitted if the applicant's native language is not English or if the applicant has not graduated from a high school where English was the language of instruction. A minimum TOEFL score of 80 on the iBT is required. Students must ask the testing agency to send original TOEFL scores to Creighton University. The Institutional Code for Creighton University is 6121. Official results of other standardized English tests may be considered.

Conditional Admission

Eligible students who have not attained English proficiency may be conditionally admitted provided that they enroll in Creighton's Intensive English Language Institute (IELI) until they obtain the required English proficiency level.

Certification of Available Finances

All applicants are required by the U.S. Government to certify that they can provide adequate funding to cover the cost of a U.S. education. Final admission to Creighton University cannot be authorized and an I-20 issued until the Office of International Programs verifies the applicant's complete Undergraduate Student Certification of Available Finances Form.

Matteo Ricci Scholarships for International Students

Creighton University offers eligible international students Matteo Ricci academic scholarships. Criteria for the awards include excellent academic records and F-1 visa status. Returning students and permanent residents are not eligible to receive the Ricci scholarships. To have their scholarships renewed after their first year, recipients should maintain a pre-determined grade point average and maintain their F-1 visa classification. Applicants interested in competing for these scholarships must submit their complete application for admission on or before March 1st, the priority deadline for Fall Semester admission or before September 1st, the priority deadline for Spring Semester admission.

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 class 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.

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.¹ (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 2011):	
a. In Arts & Sciences or Business Administration (12 to 18 credit hours)	15,242.00
b. In Nursing except Accelerated Curriculum (12-18 credit hours).....	15,242.00
c. In Accelerated Nursing Curriculum (effective August 2011)	14,425.00
d. In RN to BSN Nursing Program	15,242.00
<i>University College</i>	
Part-time (1-11 credit hours) ² per credit hour	704.00
<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 ³ :	
a. For courses in Arts & Sciences, Business Administration	952.00
b. For courses in Nursing (except in Accelerated Curriculum)	952.00
<i>Tuition per course</i> —Independent Study Program (Correspondence, 3 credit course)	
.....	963.00
<i>University Fee</i> for all full-time students per semester	494.00
<i>University Technology Fee</i> for all full-time students per semester	211.00
<i>University Fee</i> for all part-time students per semester	51.00
<i>University Technology Fee</i> for all part-time students per semester	85.00
<i>Orientation Fee</i>	65.00
This one-time fee is charged to all new, full-time, undergraduate students.	
<i>Student Health Insurance Premium</i> for six months ⁴	981.00
<i>Application for Graduation Late Fee</i>	50.00

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.

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> ¹ (also see Financial Arrangements—page 49)	151.00
<i>Applied Music fee</i> for registration per credit hour each semester	300.00
<i>Board rate and room rate</i> per semester	(see page 21-22)

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

² University College students may be eligible for a remission of 33 percent 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.

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 on the Business Office website.

The University also reserves the right to exclude certain programs from this special discount. Currently the Graduate Business and MS, NDR programs are excluded. 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 2011)	\$30,484.00
University Fee	988.00
University Technology Fee	422.00
Board and double room.....	<u>9,238.00</u>
Total for academic year (two semesters).....	41,132.00

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

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.

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

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 in late April to accepted incoming students who have paid a deposit. Current students are sent an email reminder in late April.

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

Students are encouraged to pay tuition and other expenses online via the NEST. 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 \$151 for the first month and an additional \$78 for each subsequent month that the account remains unpaid. Accounts with unpaid balances under \$500 will be subject to a \$151 fee the first month and \$63 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 start of term</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 start of term</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 start of term</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 due to withdrawal from the University will be prorated on a weekly basis.

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

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, University technology fee, late payment, special examination/evaluation, challenge examination, recording, tuition remission administrative fee, orientation 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. 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 2011 Federal tax return to the Student Financial Aid Office by May 1, 2012. 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 N.E.S.T. 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 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 N.E.S.T. 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 N.E.S.T. account. Be sure to check both your Creighton e-mail and N.E.S.T. 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 N.E.S.T. 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 the qualifying material listed for each scholarship, you must be accepted and enrolled full-time at Creighton to retain scholarship(s) for a maximum of four academic years or eight consecutive fall/spring semesters (exclusive of summer terms) or attaining the requirements to apply for graduation, whichever comes first. 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., D.N.P., Ed.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.

Non-Need Based Scholarships

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.

For a complete listing and description of all University Scholarships, please refer to our online listing. <http://www.creighton.edu/registrar/informationandschedules/bulletins/undergraduatebulletin/scholarships/index.php>

Presidential Scholarships

Creighton Academic Scholarships

Ignation Scholarships for Service and Leadership

Jesuit Scholarships

Scholarship for Economic and Educationally Disadvantaged Students

Dr. Victor and Mary Albertazzi Scholarship

Alumni Association Scholarships

The Arthur Andersen and Company Endowed Scholarship

Lt. Col. Michael P. Anderson Memorial Scholarship

Sebastian Basilico Scholarship

Mary Ann Beller Scholarship Fund

Dr. Lee C. Bevilacqua Scholarship

David Black Diversity Scholarship

The Rowley "Pat" Irwin Blakeney Scholarships

William Jennings Bryan Debate and Speech Scholarship

Michael A. Byrne Scholarship

Congressman Walter H. Capps Justice and Peace Scholarship

Sheila Ciciulla Nursing Scholarship

Don and Joan Cimpl Athletic Scholarship

The College of Business Administration Scholarship

College of Business Administration Ethics and Social Responsibility Scholarship

Luke and Shirley Coniglio Scholarship

Everett and Eileen Connelly Scholarship

The James D. Conway Scholarships

Frederick J. de la Vega Scholarship

The Deloitte and Touche Scholarship

Robert M. Dippel Scholarship

Mary Dora Scholarship

Dowd Family Scholarship

Paul W. Douglas Scholarship

Non-Need Based Scholarships

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Fogarty Family Scholarship

James and Mary Foley Scholarship

H. M. and Ruby V. Frost Scholarship

Robert "Bob" Gibson Scholarship

Jean H. Jerman Gondringer Scholarship

Good Family Scholarship

Haddix Foundation Scholarship

Mary Halbur Hawver Scholarship

Harve B. Heaston Memorial Scholarship

James and Helen Hughes Herbert Scholarship

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

Jonathan M and Myleen S.J. Hurwitz Scholarship

Frank J. Iwersen, MD Student Athlete Scholarship

Lied Foundation Trust/Christina Hixson Scholarship

Werner P. Jensen Athletic Scholarship

Adele M. Johnson Scholarship

Robert and Lisa Rater-Johnson Endowed Scholarship

Charles and Genevieve Juergens Scholarship

Thomas P. Keating Phi Delta Theta Scholarship

Grace Keenan Scholarship

Edeth K. Kitchens Scholarship

T. Leslie Kizer Scholarships

KPMG-LLP Foundation Endowed Accounting Scholarship

John W. and Ann C. Langley Scholarship

Lorge Arts Scholarship

Clare Boothe Luce Scholarship

Paul Luex Scholarship

Deborah Macdonald Foundation Scholarship

Paul E. McCarville Scholarship

John J. "Red" McManus Scholarship

Midwest Insulation Contractors Association/William R. Heaston Memorial Scholarship

Gordon and Gertrude Morrison Scholarship

John A. Murphy Scholarship

Non-Need Based Scholarships

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- Joseph F. Murphy, Jr. and Helen Clare Murphy Family Scholarship*
- Nebraska Society of CPA's*
- Laurence R. O'Donnell Scholarship*
- Omaha Federation of Advertising Scholarship*
- O.P.P.D. J.M. Harding Scholarship*
- Raymond Owens Scholarship*
- Val J. Peter Scholarship*
- Dean Michael Proterra, S.J. Scholarship*
- Leonard and Madeline Powers Nursing Scholarship*
- Patrick C. Quinlan Memorial Scholarship*
- Thomas C. Quinlan Scholarship*
- Lyle O. and Evelyn Remde Scholarship*
- Rowley Family Scholarship*
- Schroedinger's Cat Scholarship*
- Scott Scholars Endowed Scholarship*
- Dr. John F. Sheehan Scholarship*
- V.J. and Angela M. Skutt - Mutual of Omaha Scholarship*
- Creighton Memorial St. Joseph Hospital Nursing Alumni Scholarship*
- Joseph Sullivan Scholarship*
- Gilbert C. Swanson Foundation Scholarship*
- H. Margaret Thorough Scholarship*
- Rose and Sal Valentino Scholarship*
- Valentino Family Memorial Scholarship*
- Anna Tyler Waite Scholarship*
- Floyd E. and Berneice C. Walsh Scholarship*
- Rev. William Weidner Scholarship*
- Dr. Joseph B. Wiederholt Scholarship*
- Wesley Wolfe Scholarship*
- A. A. and E. Yossem Scholarships*
- Zoellner Family Endowed Scholarship*
- Charles Zuegner Memorial Scholarship*

Need-Based Scholarships

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.

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Ahmanson Foundation Scholarships

Alpha Sigma Nu Scholarship

AMDG RAD Scholarship

Harold and Marian Andersen Family Fund Scholarship

Anna M. and Bernard G. Anderson Scholarship

Regina Burnett Andolsek Scholarship

Ben Augustyn Scholarship

Fr. Andrew M. and Edward D. Augustyn Scholarship

Leo Augustyn Scholarship

Alan Baer Tennis Scholarship

Mr. and Mrs. Jack B. Balousek Scholarship

Clair D. Barr Memorial Scholarship

Barry Family Scholarship

Sally Jo Bayne Scholarship

Beckman Nursing Endowed Scholarship

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

William E. Belfiore Memorial Scholarship Fund

Thomas J. and Mary Ann Belford Scholarship

Frank Earl Bellinger M.D. Scholarship

Leon and Reba Benschoter Scholarship

Agnes Haller Bertoldi Scholarship

Charles and Mary Patricia Blevens McFadden Endowed Scholarship Fund

Elmer L. and Margaret M. Bradley Scholarship

John P. and Charlotte M. Brand Scholarship

Quentin and Ruth Breunig Scholarship

Dr. Patrick E. Brookhouser Scholarship

Mildred D. Brown Scholarship

George and Mary Ellen Burns Scholarship

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

Fr. Neil Cahill, S.J. Scholarship

John and Ann Callahan Scholarship

Chicago Minority Student Scholarship

Olive Odorisio Circo Spirit Scholarship

W. Dale and Katherine Clark Scholarship

Dr. James R. and Bridget Condon Memorial Scholarship

Need-Based Scholarships

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Matthew B. and Marion A. Conway Scholarship

James and Barbara Corboy Scholarship

James M. Cox Scholarship

Creighton Family Tennis Scholarship

Matthew E. Creighton, M.D. Scholarship

Creighton University Scholarship for Women

Dr. James and Karen Cunningham Scholarship

Norma Link Curley Scholarship

M. and J. Curran Scholarship

Charles H. and Mary Lou Diers Scholarship

John J. Dougherty Scholarship

Leo and Rita Durrett Scholarship

Judy and Don Dworak Scholarship

EducationQuest Foundation Scholarship

Elizabeth Fund for Nurses

Eugene B. Even Scholarship

John P. Fahey Scholarship

Grace and Robert Fay Scholarships

Edward W. and Nancy E. Fitzgerald Scholarship

Dr. Herbert J. Funk Scholarship

Tom and Judy Garner Scholarship

Kitty Gaughan Scholarship

Emalea and Zeta Gaul Scholarship

Dr. James and Lois Gerrits Family Scholarship

William M. Gordon Scholarship

Amelia Bunbury Graff Scholarship

Ashok and Uma Gupta Scholarship

Adolph Hallas Scholarship

Scott Harman Scholarship

Josie Harper Nursing Scholarship

D. Paul and Marjorie S. Hartnett Scholarship

William Randolph Hearst Foundation Scholarship

Dr. Irvin L. Heckmann Memorial Scholarship

Jane A. and Susan S. Hedequist Scholarship

Charles F. and Mary C. Heider Scholarship

Need-Based Scholarships

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For a complete listing and description of all University Scholarships, please refer to our online listing. <http://www.creighton.edu/registrar/informationandschedules/bulletins/undergraduatebulletin/scholarships/index.php>

The Richard J. and Marguerite Heider Endowed Scholarship

Dr. Todd P. Hendrickson Student Athlete Annual Scholarship

Richard L. and Peggy Herman Scholarship

Dr. Edward A. Hier Scholarship

Roger Holzman Scholarship

David M. Hoover Memorial Scholarship

Gunnar Horn Scholarship

Dr. Ross C. Horning Endowed Scholarship

Joseph Harrison Jackson Scholarship

Marion G. Jeffrey Memorial Scholarship

Martin C. and Helen M. Jessup Scholarship

Lavern and Thelma Johnson Scholarship

Edith and Carl Jonas Scholarship

Glenn T. Jordan Scholarship

John J. and Eloise H. Kane Scholarship

Leo Kelley Memorial Scholarship

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

William F. Kelley, S.J. Scholarship for Tennis and Golf

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

Helen W. Kenefick Scholarship

Gertrude Beckers King Scholarship

James and Jean Kisgen Scholarship

Adrienne Kittle Memorial Scholarship

Chris M. and Joan Kuehl Memorial Scholarship

William R. and JoAnn McCroy Kunkel Scholarship

Barbara Lamberto Scholarship

Metta Laughlin Scholarship

Les and Phyllis Lawless Scholarship

Len Leavitt Memorial Scholarship

The Metro Fund

Michael E. and Mary Neppl Leighton Scholarship

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

Lynch-Heaston Scholarship

John L. and Carol V. Maginn Scholarship

Walter J. and Ruth C. Maginn Scholarship

Need-Based Scholarships

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.

For a complete listing and description of all University Scholarships, please refer to our online listing. <http://www.creighton.edu/registrar/informationandschedules/bulletins/undergraduatebulletin/scholarships/index.php>

Ralph and Margaret Mailliard Memorial Scholarship
Yano and Cindy Mangiameli Scholarship
William and Alice Matthews Scholarship
Betty Marchese Scholarship
Matte Family Scholarship
Diane McCabe Scholarship
J. Barry and Rita McCallan Scholarship
Margaret L. McCarthy-Spielman Scholarship
Thomas P. and Mary Kay McCarthy Scholarship
Roma Nagengast McGahan Scholarship
Fr. Richard D. McGloin, S.J., Scholarship
McGuire-Holden Family Scholarship
Everett and Helen Meister Scholarship
Memorial Scholarship
Olga Dyba Mericle Scholarship
Joseph Sr. and Sundina Miniace Scholarship
Rita A. Molseed and G. Melvin Hickey Scholarship
Daniel and Mary Ellen Monen Scholarship
Rev. Michael G. Morrison, S.J. Scholarship
G. Robert Muchemore Foundation Grant
Edward D. Murphy Scholarship
Marjory Mahoney Murphy Scholarship
Orscheln Industries Scholarship
Dr. Ray Palmer Baseball Scholarship
Richard Pearlman Memorial Scholarship
Gerald Petersen Family Scholarship
Peter J. Phelan Memorial Scholarship
Leonard H. and Madeline Kenney Powers Scholarship
John A. Quinlan Memorial Scholarship
Rev. James Quinn Scholarship
Jerry Rasmussen Scholarship
Mark and Karen Rauenhurst Scholarship
Robert and Betsy Reed Scholarship
Frank & Sheryl Remar Arts and Sciences Scholarship
Frank & Sheryl Remar CoBA Scholarship

Need-Based Scholarships

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.

For a complete listing and description of all University Scholarships, please refer to our online listing. <http://www.creighton.edu/registrar/informationandschedules/bulletins/undergraduatebulletin/scholarships/index.php>

Dr. John R. and Beverly Bartek Reynolds Scholarship

Kent P. and Donna C. Saylor Scholarship

John P. Schlegel Scholarship

Leon Schmidman Memorial Scholarship

Scholarship for Women in Business

Louis and Alma Schreiber Scholarship

William and Ruth Scott Scholarship

Barbara and Don Shellenberg Scholarship

Jesse J. Shelton Scholarship

V.J. and Angela Skutt Scholarship

Dr. Patrick and Christine Smith Scholarship

Smola-McCormick Scholarship

Donald W. Spielman Scholarship

Stafford Family Scholarship

William Stockdale Minority Scholarship

Lois R. Suzuki Memorial Scholarship

TierOne Bank Scholarship

Virginia Roehrig Tomczak Scholarship

Dennis L. Toohey Memorial Scholarship

Margaret Trondle Zenner Scholarship

Richard and Helen Upah Scholarships

The VT Industries, Inc. Scholarship

Roger F. and Mary A. Warin Scholarship

Robert and Frances Wear Scholarship

Gerald J. Wieneke, M.D. Scholarship

Wiesner Family Scholarship

Rev. Roswell Williams, S.J. Scholarship

Christine Wiseman, J.D. Scholarship

Jimmy Wilson, Jr. Memorial Scholarship

Patrick and Peggy Zenner Scholarship

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.

Nebraska Opportunity 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 Remission Benefit

Tuition remission is available to children of University employees who meet eligibility requirements based on specific program criteria. Receipt of full tuition remission will preclude a student from receiving the monetary value of any Creighton University scholarship, and/or institutionally funded grant. Eligible employees must submit a Tuition Remission Application available from Human Resources.

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 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 \$27,000 during their total undergraduate careers and up to \$60,000 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 Direct Subsidized Student Loan

Creighton University participates in the Federal Direct Loan Program, which means students are borrowing directly from the federal government. All students must demonstrate financial need to be eligible for the subsidized loan. The amount a student may borrow depends on the student's financial need but may not exceed the yearly limits. Students may keep the up-front rebate fee as long as they make the first 12 payments on-time. The Federal government pays interest on the loan while the student is in school. **Please refer to our webpage at www.creighton.edu/finaid for the most recent terms, interest rates, conditions and annual amounts of this loan program.**

Federal Direct Unsubsidized Loan

An unsubsidized 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 Federal Direct 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 Direct Parent Loan (PLUS)

A parent of an undergraduate student may borrow the total cost of education less other aid and has no aggregate maximum. Proceeds will be disbursed in two installments and will be applied direct to the student's account at the Business Office. Repayment of principal and interest begin 60 days following the date of the second disbursement of loan proceeds or a parent borrower may request the loan payments be deferred while the student is enrolled at least half-time (up to four years).

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

SHORT-TERM LOANS

Students may make application on-line by going to the Business Office website and clicking on the Student Loan Info tab. Additional information regarding the terms and conditions related to short-term loans can be obtained by contacting the Business Office directly.

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 least Federal minimum wage 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 the Creighton Career Center (<http://www2.creighton.edu/careercenter>). At the time of hire, all U.S. students employed on campus must be prepared to complete a Federal I-9 Employment Eligibility Form. Be prepared to show a valid ID and a document that proves your eligibility to work in the United States. The most commonly acceptable documentation is an 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 LIFE

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.

CREIGHTON CAREER CENTER

Career and Academic Exploration

The Creighton Career Center is designed to assist students from the beginning of academic pursuit straight through to graduation. Career and academic counselors are available for appointments to meet with students on an individual basis in one convenient location. Students are strongly urged to take advantage of services early in their academic careers, and can obtain assistance with clarifying career goals and options, assessments, choosing and changing majors/minors, and course selection.

Programs

The Career Center sponsors a number of workshops and seminars on resume writing, interviewing techniques, job/internship strategies, and graduate/professional school preparation. Career Fairs are offered in the fall and spring that provide students the opportunity to network with more than 200 representatives from business, industry, government and graduate/professional schools.

Internships

The Career Center 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 Jobs4Jays.

Employment

The Career Center provides information about local, regional, and national employment opportunities, industry profiles and trends, information about specific companies, as well as access to Jobs4Jays, a comprehensive database of jobs and internships. The various functions run through Jobs4Jays also include the On-Campus Recruiting Program and the Resume Referral System. For more information, please call or visit the Creighton Career Center in Harper Center, Suite 2015 and visit our website at www.creighton.edu/careercenter.

OTHER SERVICES

Campus Ministry—Members of the Campus Ministry team are ready at any time to discuss in a respectful and confidential manner the spiritual journey of students of any faith tradition. All students of Creighton's community are welcome to "come to the quiet" of St. John's to reflect and pray for guidance as they live out their vocation as students in the Ignatian tradition, and to talk with one of our qualified ministers with any questions or challenges they may experience in their lives of faith. Please visit the Campus Ministry offices located in lower Swanson Hall to visit with any of our ministers.

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 SUCCESS AND RETENTION

The Center for Student Success and Retention provides services and opportunities that enhance the personal development, academic success, and retention of Creighton University students. Located on the 4th floor of the Harper Center, the Center houses the Office of Student Success, the Office of Retention, and the Ratio Studiorum Program. Students are encouraged to visit the Center to take advantage of tutoring programs, academic coaching, academic counseling, and for assistance with any other issue that is impacting his or her ability to be successful at Creighton. Call 402-280-5566 or visit success.creighton.edu for more information.

STUDENT SUPPORT SERVICES PROGRAM

The Student Support Services Program at Creighton seeks to provide academic, emotional, cultural, 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 on the fourth floor of the Harper Center for Student Life and Learning. Call (402) 280-2749 for more information.

CENTER FOR HEALTH AND COUNSELING

The Center for Health and Counseling houses both Health Services and Counseling Services. Together these Services are dedicated to promoting healthy life choices as well as serving the health and counseling needs of Creighton students. The two Services cooperate in the care of Creighton students. Located in Suite 1034 of the Harper Center. During the academic year, hours are 8:00 a.m. – 4:30 p.m. Monday, Thursday, and Friday; 8:30 a.m. – 6:30 p.m. Wednesday; and 10:00 a.m. – 6:30 p.m. Tuesday. Summer and academic break hours are 8:00 a.m. – 4:30 p.m. Monday-Friday.

Student Counseling Services

Counseling services are available to all full-time Creighton Students. The counseling services are intended to assist all students in their growth, their adjustment to academic and life challenges, and their development of healthy strategies for living. Our services encourage positive health and wellness practices. The staff is sensitive to the cultural and life-style uniqueness of all students. We offer a variety of services to assist with the choices in college life:

- Individual counseling
- Psychological assessment to address academic problems
- Group counseling with groups focusing on women's issues, depression, grief, and transition to college
- Workshops for test anxiety and stress reduction
- Couples counseling
- Psychiatric Consultation

Counseling Services staff (full and part time) consists of four licensed psychologists, three licensed counselors, two pre-doctoral psychology interns, and a Board Certified Psychiatrist.

Call the Center at 402-280-2735 for an appointment, or drop in. All counseling services are confidential. The Center is accredited by the International Association of Counseling Services. Counseling services are offered at no cost to Creighton students. There is a fee for some psychological assessment services.

Student Health Services

Student Health Services provides a variety of services that 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 assistant, or nurse practitioner provides services. **Services are available to all currently enrolled Creighton University students.**

Services Available:

- | | |
|---|------------------------|
| • Allergy Injections | • Laboratory/Radiology |
| • Health and Wellness Promotion | • Sick Care |
| • Immunizations and Flu Shots | • Travel Health |
| • Physical Exams (including Pap Smears) | |

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.

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

How to obtain Student Health Services

Call 402-280-2735, Monday through Friday. Appointments should be made for all health needs other than 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 result in the best use of our available appointment times.

Who Provides the Services?

Physicians, nationally-certified Physician Assistants and Nurse Practitioners are the core provider staff. They are supported by Registered Nurses, Licensed Practical Nurses, 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 Medical Center. Mental health services are provided by referral to Counseling Services, the Department of Psychiatry in the School of Medicine, psychiatrists, and/or therapists within the community.

Participating Providers

Our providers participate with most insurance plans. All claims are automatically submitted to the insurance carrier indicated by the student at the time services are provided. It is important to check with your insurance plan to verify the benefit level for services obtained away from home. Some plans require a referral for out-of-network services. The student will be responsible for initiating the referral process required by their insurance company.

After Hours Care

Urgent care services are available at local urgent care centers. Many of 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 campus. Any after hours care received will be the financial responsibility of the student. Campus Health Aides are available to students living in the residence halls and can be reached by calling 402-280-2104.

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.

We offer two online resources for all students:

Student Health 101 Newsletter: This is an interactive, informative monthly newsletter available to all students. Learn more about specific issues facing college students and watch videos from other students regarding campus life, healthy eating on a limited budget, roommate issues, exercise, and so much more. Visit our website for the link. <http://www.creighton.edu/chc>.

Online Student Health: Please enroll at <http://medicatweb.creighton.edu> to receive secure messages from the Center for Health and Counseling. Currently, this secure messaging is used to inform you of laboratory results. In the future you will be able to make appointments 24/7 using this secure portal.

The Center for Health and Counseling is responsible for maintaining the records that relate to the following University requirements. Please contact us if you have any questions.

University Immunization Requirement

All Creighton University Students are required to comply with the University's Immunization requirements. Failure to meet these requirements will result in denial of registration privileges and exclusion from clinical activities. Vaccination requirements follow CDC guidelines and are reviewed annually.

All Students

MMR Vaccine Requirement For students born after January 1, 1957, 2 MMR vaccines given after the 1st birthday and at least 30 days apart are required.

Positive blood titers for measles, mumps and rubella will meet the MMR requirement if vaccination dates are not available. History of illness does not meet this requirement.

A complete listing of all immunization requirements can be found at the following address: <http://www.creighton.edu/chc>

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-endorsed Student Medical Insurance Plan will remain on the student's account unless the waiver process is properly completed before the deadline. **This information is required on an annual basis.**

* A comprehensive health insurance plan fulfills the following requirements:

- Coverage for inpatient and outpatient medical care within the Omaha area. (Emergency only coverage does not satisfy this requirement.)
- Coverage for inpatient and outpatient mental health care within the Omaha area. (Emergency only coverage does not satisfy this requirement.)
- Coverage is currently active and maintained for the entire academic year.
- Offers a lifetime maximum of at least \$250,000 in coverage per accident or illness.

* Automatic enrollment in the University-endorsed Plan will occur and the tuition statement will reflect a charge for the entire premium when the Center for Health and Counseling becomes aware of a lapse in the student's health coverage.

Creighton University Student Medical Insurance Plan

As a service to students, the University endorses 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.

Contact the Center for Health and Counseling for complete details at the Harper Center, Room 1034, Phone: (402) 280-2735, Fax: (402) 280-1859; <http://www.creighton.edu/chc>.

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 May Session, Term 1, and Term 2. The student may earn three credits in the May 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 304. 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.

Instructors 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 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, and from outside educational courses leading to teacher certification. Up to four credit hours of courses in the minor may be taken on a "P/NP" basis. No Core courses may be taken as "P/NP." Course prerequisites must be met. Hours passed will be counted toward graduation but will not be included in the grade-point average. Likewise, a "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 must submit a Completion of Course Agreement form 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. While the instructor sets the deadline for completion of the course, this deadline must not exceed the maximum time limit for clearing an incomplete which is one year from the end of the course. After the deadline has passed, 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 N.E.S.T. (Registrar’s home page) and entering the student’s ID number (typically the student’s NetID) and the student’s password.

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

An undergraduate student may not repeat a course for which a final grade of "C" or better (including "P" and "SA") has been earned. This includes credit awarded through Advanced Placement Exams, International Baccalaureate, and transfer credit.

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.

Undergraduate Request to Decline Credit

An undergraduate student may not repeat a course for which a final grade of "C" or better (including "P" and "SA") has been earned. This includes credit awarded through AP Exams, International Baccalaureate, and transfer credit. However, University Undergraduate Policy allows a student to decline credit previously awarded by Creighton for Advanced Placement Examinations, International Baccalaureate, and transfer credit. This credit must have been earned prior to attending Creighton. Students may repeat courses for which credit has been declined. Under no circumstance may credit earned at Creighton be declined. Dual credit courses offered by Creighton may be repeated regardless of the original grade received. Only the repeated grade will be included in the grade point average. However, both grades will remain permanently on the student record.

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 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 the application online (N.E.S.T.) by the deadline to be considered for a degree. (February 13, 2012 for graduation at end of second semester, by June 7, 2012 for graduation at the end of Summer Session, and by October 11, 2012 for graduation at end of first semester). Late applicants will be charged a late fee.

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 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

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
RSP 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 to commission officers into the United States Army. The program builds leaders of character to serve the common defense. Upon completion of the program, graduates are commissioned as Second Lieutenants.

Creighton's Military Science Program is an elective two-year or four-year program taken as any other elective course. Up to 24 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 prepare students for a Commission in the U.S. Army. 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 and 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, supervisory and leadership 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 unless they have prior military service. 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 \$450-500 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- or three-year scholarship that could be worth up to \$108,000. In addition to the \$450 per month and the Reserve unit pay, SMP students are still eligible for selected Montgomery GI Bill college assistance programs and bonuses. Total monetary entitlements for a nonscholarship SMP student wanting to use the Montgomery GI Bill instead of a scholarship could exceed \$36,000.

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), NSTP (Nurse Summer Training Program), Airborne, Air Assault, Northern Warfare, and Cultural Immersion Study Abroad are great examples of opportunities available to ROTC students. Students are allowed to attend these optional courses in the summer between their Freshman and Junior years. These courses are designed to broaden their knowledge and understanding of the military profession and allow them to acquire and develop new skills. Travel expenses and a stipend are included for each of these courses.

ROTC Scholarships

Four- 3.5, 3, 2.5, and 2-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 ROTC scholarship may 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/board supplement, a student must enter Creighton as a first

time college student with an ROTC scholarship commitment. Army ROTC scholarships pay full tuition and fees per year for books and fees, and \$300-500 per month during the school year. Nursing scholarships are also available to qualified nursing students. Nurses receive the same benefits as regular students plus the Army pays for the NCLEX exam, NCLEX prep course, a PDA for use during clinicals, and a stethoscope. 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 all academic expenses. These scholarships are offered in medicine, osteopathy, and psychology (Ph.D., clinical or counseling) and dentistry. Scholarships are also available to students going on to Physical Therapy, Occupational Therapy, and Pharmacy. Two-year graduate scholarships are also available. 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 may also receive a full residence hall room and board supplement upon activation of their scholarship at Creighton 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/board supplement, a student must enter Creighton as a first time college student with an ROTC scholarship commitment. 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 \$900 a year is paid to offset the cost of books and each student receives \$300-\$500 per month for 9 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 310.

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 and/or sophomore year in college. To be eligible, 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 402-554-2318).

NATIONAL SCHOLARSHIP COMPETITIONS

Every year Creighton students apply for a range of highly prestigious national scholarships. These competitive awards recognize the nation's best students. They offer considerable support either for undergraduate studies, continued education at the graduate level or for other significant post-graduate work, such as service to the nation or the community. For more information contact Dr. Bridget Keegan, Director of Scholarships and Fellowships or consult Creighton's Scholarships website, <http://www.creighton.edu/soar>. The website contains full details on all available scholarships, including the following:

The Davies-Jackson Scholarship presents a unique opportunity for students with exceptional academic records, who are among the first in their families to graduate college, to participate in a course of study at St. John's College at the University of Cambridge. http://www.cic.edu/projects_services/grants/daviesjackson/.

Fulbright Grants allow scholars, professionals and artists to travel to other countries to research and study. <http://us.fulbrightonline.org/home.html>.

The Gates Cambridge Scholarships are full-cost awards for graduate study and research in any subject available at the University of Cambridge. The scholarships are highly competitive and are awarded to citizens of any country outside of the United Kingdom on the basis of the candidate's academic excellence, a good fit between the Scholar and the University of Cambridge, evidence of leadership potential and a commitment to improving the lives of others. <http://www.gatesscholar.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 Boothe Luce Foundation provides support to women in the sciences, mathematics, and engineering. <http://www.creighton.edu/luce>.

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. One and two year scholarship are available. <http://www.marshallscholarship.org>.

The George J. Mitchell Postgraduate Scholarships are sponsored by the US-Ireland Alliance and is designed to introduce and connect generations of future American leaders to the island of Ireland, while recognizing and fostering intellectual achievement, leadership, and a commitment to public service and community. Mitchell Scholars pursue one year of postgraduate study in any discipline offered by institutions of higher learning in Ireland and Northern Ireland. Applicants are judged on three criteria: academic excellence, leadership, and a sustained commitment to service and community. <http://www.us-irelandalliance.org/wmspage.cfm?parm1=34>.

The National Science Foundation awards fellowships for graduate study leading to research-based master's or doctoral degrees in the fields of science, mathematics, engineering, women in engineering, mathematics and computer and information science. <http://www.nsf.gov/>.

National Security Education Program David L. Boren Fellowships are intended to support U.S. graduate students who will pursue the study of languages and cultures deemed critical to U.S. national security, and who are highly motivated by the opportunity to work in the federal government. <http://www.borenawards.org>.

Rhodes Scholarships, the oldest international fellowships, bring outstanding students from many countries around the world to the University of Oxford (U.K.). Applicants will have demonstrated intellectual distinction as well as promise of future "effective service to the world." <http://rhodesscholar.org>.

The Harry S. Truman Scholarship Foundation recognizes college juniors with exceptional leadership potential who are committed to careers in government or other public service, and provides them with financial support for graduate study. <http://www.truman.gov>.

The Morris K. Udall Undergraduate Scholarship is awarded to highly qualified sophomore or junior students who are Native American and interested in tribal public policy or Native health care, or students of any ethnicity interested in environmental issues. <http://www.udall.gov/>.

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.

PRE-MEDICAL EDUCATION PROGRAM (PMED)

Creighton University offers a non-credit, Pre-Med Educational Seminar (PMED) series to students planning to apply to medical school during their undergraduate careers. The co-curricular program and its activities are designed to complement the student's academic and scholarly achievements.

- A five-semester series of weekly seminars and other activities designed to strengthen the candidacy of Creighton students as they prepare for the medical school application process.
- The series begins in the second semester of the freshman year and concludes after the second semester of the junior year.
- Seminar activities include workshops that address interviewing, preparing an AMCAS application, writing personal statements and developing solid shadowing experiences, among other important topics.
- PMED will allow students to develop and maintain quality relationships with advisors, and those providing input to the university-level letter, to include in their applications to medical school.



PROGRAMS OF STUDY

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
- Demonstrate an active engagement with [and enduring commitment to] Jesuit values of service and social justice;
- Demonstrate a historical or contemporary understanding of diverse human identities and cultures in the United States and around the world.

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 at least 48 credit hours in courses numbered 300 or above
- an overall cumulative grade point average (GPA) of at least 2.00, based on all courses at Creighton University
- completion of all applicable requirements of the Core curriculum
- completion of at least one major in one of the departments of the College
- a GPA of at least 2.00 in the minimum requirements of their major
- the final 32 semester hours must be completed in residence at Creighton University

Elective courses should be chosen in consultation with the 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. Additional tuition may be charged.

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 is organized into five categories. Students must complete the designated number of credits for each category in approved courses from the lists on the pages that follow. In some cases one course may meet more than one Core requirement.

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
 Non-Western History (History) — 3 credits
 World Literature I: Pre-1600 (Classical Civilization/English) — 3 credits
 World Literature II: Post-1600 (English) — 3 credits
 International/Global Studies (Choice) — 3 credits

CATEGORY C — Natural Science — 7 credits

The list of approved courses can be found on page 93. At least one course must have a significant laboratory component.

CATEGORY D — Social and Behavioral Sciences — 6 credits

Must be taken from two different fields. The approved courses can be found on page 93.

CATEGORY E — Skills — 12-15 credits

The requirements in any of the Skills areas may be met through tests or portfolios. The 128 credit hour graduation requirement is not reduced through these tests and portfolios.

Rhetoric and Composition (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) — A minimum of six credits in one language at 100 level if learning it for the first time or 3 credits of language 201 with previous knowledge of that language.

CERTIFIED WRITING COURSES

Four approved writing intensive courses.

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 on a 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
THL 101	Theology, Cosmology, and the Environment

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

Christian Theology

JPS 331	Jesus Christ: Liberator
JPS 335	Jesus Christ: Yesterday and Today
JPS 343	Ecclesiology in Context
THL 324	Scripture and Theology: The Birth of Christian Doctrine
THL 325	Catholicism: Creed and Question
THL 326	Defending the Christian Faith
THL 327	Christianity and the Holocaust
THL 330	Jesus Christ and the Salvation of the World
THL 331	Jesus Christ: Liberator
THL 335	Jesus Christ: Yesterday and Today
THL 336	Divine Providence, Catholic Social Teaching and Problem of Climate Change
THL 338	Eucharist: Sacrament of Unity or Disunity
THL 339	Theology of the Church and Sacraments
THL 342	The Church in the Dominican Republic
THL 343	Ecclesiology in Context
THL 344	Theology of Christian Marriage

Ethics

PHL 250	Philosophical Foundations for Ethical Understanding
THL 250	Theological Foundations for Ethical Understanding
PHL 255	Energy, Ethics and Environment

Philosophy

PHL 320	God and Persons: Philosophical Reflections
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Senior Perspective

AMS 426	The West of the Imagination	SRP 412	Sickness, Disability, and Healing
AMS 482	Race in America: Idea and Reality	SRP 415	Stories that Shape Lives
ANT 409	Race and Gender Relations	SRP 416	The Jesuits, their History & Spirituality
ANT 424	Sustainability and Rural America	SRP 418	Jesus Through the Ages
ANT 444	Non-Violence/Resolution of Conflict	SRP 420	Science and Religion
ANT 455	Food, Society and Environment	SRP 422	Children of Poverty
ARH 418	Jesus Through the Ages	SRP 424	Sustainability and Rural America
ART 428	Film and the Fine Arts	SRP 425	Myths That We Live By
BKS 482	Race in America: Idea and Reality	SRP 426	The West of the Imagination
CNE 425	Myths That We Live By	SRP 428	Film and the Fine Arts
COM 477	Gendered Health Across the Lifespan	SRP 430	Ethics in Post-Communist Countries
COM 478	Intersections of Working Personal Life	SRP 431	Math History, Philosophy Ethics
COM 488	Personal/Spirit Dimension Leadership	SRP 434	Philosophy of East Asian Lit. and Film
CSC 448	Freedom/Security Dig.-Divided Society	SRP 435	Literature, Philosophy and Economics
EDU 450	Violence in America	SRP 436	Politics/Ethics of Science & Technology
EDU 470	Poverty in America	SRP 437	Environment & Race, Class, & Gender
EDU 488	Personal/Spirit Dimension Leadership	SRP 438	Literacy and Community
ENG 435	Literature, Philosophy and Economics	SRP 439	Literacy and Technology
ENG 438	Literacy and Community	SRP 440	Music, Liturgy and Transformed Life
ENG 439	Literacy and Technology	SRP 444	Non-Violence/Resolution of Conflict
ENG 489	American Prisons	SRP 448	Freedom/Security Dig.-Divided Society
EVS 424	Sustainability and Rural America	SRP 450	Violence in America
EVS 455	Food, Society and Environment	SRP 451	Science and Values
HAP 456	Public Health Ethics	SRP 455	Food, Society and Environment
HAP 457	Biomedical Ethics	SRP 456	Public Health Ethics
HAP 477	Gendered Health Across the Lifespan	SRP 457	Biomedical Ethics
HIS 416	The Jesuits, their History & Spirituality	SRP 458	Theology and Vocation to Health Care
HIS 431	Math History, Philosophy Ethics	SRP 460	Humanity and Concept of the Future
HIS 482	Race in America: Idea and Reality	SRP 465	Faith and Political Action
JPS 444	Non-Violence/Resolution of Conflict	SRP 468	Christianity and Power
JPS 465	Faith and Political Action	SRP 469	Psychological/ Theological Approaches
JPS 470	Poverty in America	SRP 470	Poverty in America
MTH 431	Math History, Philosophy Ethics	SRP 475	Multiculturalism
MUS 440	Music, Liturgy and Transformed Life	SRP 477	Gendered Health Across the Lifespan
NAS 424	Sustainability and Rural America	SRP 478	Intersections of Working Personal Life
PHL 420	Science and Religion	SRP 481	Poverty, Development & Public Policy
PHL 434	Philosophy of East Asian Lit. and Film	SRP 482	Race in America: Idea and Reality
PHL 435	Literature, Philosophy and Economics	SRP 487	The Bible and the Holocaust
PHL 451	Science and Values	SRP 488	Personal/Spirit Dimension Leadership
PHL 456	Public Health Ethics	SRP 489	American Prisons
PHL 457	Biomedical Ethics	SWK 409	Race and Gender Relations
PHL 460	Humanity and Concept of the Future	SWK 422	Children of Poverty
PHL 475	Multiculturalism	THL 415	Stories that Shape Lives
PHL 482	Race in America: Idea and Reality	THL 416	The Jesuits, their History & Spirituality
PLS 430	Ethics in Post-Communist Countries	THL 418	Jesus Through the Ages
PLS 436	Politics/Ethics of Science & Technology	THL 420	Science and Religion
PLS 444	Non-Violence/Resolution of Conflict	THL 440	Music, Liturgy and Transformed Life
PLS 465	Faith and Political Action	THL 457	Biomedical Ethics
PLS 468	Christianity and Power	THL 458	Theology and Vocation to Health Care
PLS 481	Poverty, Development & Public Policy	THL 468	Christianity and Power
PLS 482	Race in America: Idea and Reality	THL 469	Psychological/ Theological Approaches
SOC 424	Sustainability and Rural America	THL 488	Personal/Spirit Dimension Leadership
SOC 455	Food, Society and Environment	THR 428	Film and the Fine Arts
SRP 401	Science/Uncertainty Pluralistic World	WGS 409	Race and Gender Relations
SRP 409	Race and Gender Relations	WGS 477	Gendered Health Across the Lifespan

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

HIS 110 History and Technology in the Modern 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

AFS 342	Peoples and Cultures of Sub-Saharan Africa	ANT 358	Perspectives Critical Issues in the Study of Native American Religions
AFS 347	Peoples and Cultures of Africa and Middle East	ANT 360	Gender, Society and Culture
AFS 356	Christianity in Africa	ANT 363	Medical Anthropology
AFS 390	Introduction to African Literature	ANT 383	Cultural Epidemiology
AFS 398	Literature of Francophone Africa	ANT 400	Topical Seminar in Anthropology
AFS 400	Seminar in African Studies (Topic - African Religions only)	ANT 499	Globalization
AFS 405	Ethnicity, Nationalism and Democracy	ANT 525	Archaeological Fieldwork and Analysis
AFS 411	Politics of Africa	ANT 526	Archaeology of Roman Palestine
AFS 485	Society and Belief Systems in Africa	ARH 319	Art International
AFS 489	Southern Africa: The Politics of Race	ARH 355	Greek Art and Archaeology
AMS 331	Indians of the Great Plains	ARH 386	History and Aesthetics of Latin American Photography
AMS 335	Federal Indian Policy and Law	ARH 414	The Jesuits and the Arts
AMS 340	Native American Culture and Health	ASN 300	Introduction to Asian Studies
AMS 343	Peoples/Cultures Native North America	BKS 342	Peoples and Cultures of Sub-Saharan Africa
AMS 355	Environment and Society	BKS 347	Peoples and Cultures of Africa and Middle East
AMS 358	Critical Issues in the Study of Native American Religions	BKS 356	Christianity in Africa
AMS 360	Gender, Society and Culture	BKS 390	Introduction to African Literature
AMS 365	Issues of the Native American Experience	BKS 398	Literature of Francophone Africa
ANT 307	Demography: World Population Issues	BKS 411	Politics of Africa
ANT 317	Global Health Issues	BKS 428	Multicultural Issues in Psychology
ANT 324	Native American World View, Cultures and Values	BKS 485	Society and Belief Systems in Africa
ANT 331	Indians of the Great Plains	BKS 489	Southern Africa: The Politics of Race
ANT 340	Native American Culture and Health	CNE 355	Greek Art and Archaeology
ANT 342	Peoples and Cultures of Sub-Saharan Africa	CNE 525	Archaeological Fieldwork and Analysis
ANT 343	Peoples/Cultures Native North America	CNE 526	Archaeology of Roman Palestine
ANT 346	Peoples and Cultures of Latin America	ECO 408	Current Issues in Social Economics and Political Economy
ANT 347	Peoples and Cultures of North Africa and Middle East	ECO 518	Comparative Economic Systems
ANT 348	Peoples and Cultures of Asia	ECO 528	International Economic Development
ANT 349	Peoples and Cultures of India	EDP 361	Social Justice in the Dominican Republic
ANT 350	Social Change	EDU 315	World Geography
ANT 352	Witchcraft, Oracles and Magic	ENG 353	Intro to Native American Literature
ANT 355	Environment and Society: Sociological	ENG 390	Introduction to African Literature
		ENG 398	Literature of Francophone Africa
		EVS 307	Demography: World Population Issues
		EVS 355	Environment and Society

CORE CATEGORY B — CULTURES, IDEAS, AND CIVILIZATIONS

International and Global Studies (Continued)

GER 525	The New Berlin	PLS 316	Government and Politics of People's Republic of China
HAP 317	Global Health Issues	PLS 317	Latin American Government and Politics
HAP 383	Cultural Epidemiology	PLS 319	Politics of Developing Areas
HIS 347	The Arab-Israeli Conflict	PLS 335	Federal Indian Policy and Law
HIS 463	Japan in the Twentieth Century	PLS 340	International Politics
HIS 465	Japanese Popular Culture	PLS 345	International Political Economy
HIS 468	Modern Japan	PLS 347	International Regimes
HIS 485	Society and Belief Systems in Africa	PLS 405	Ethnicity, Nationalism and Democracy
HIS 489	Southern Africa: The Politics of Race	PLS 411	Politics of Africa
HIS 567	Change and Revolution in the Modern Middle East	PLS 435	Global Poverty and Development
JPN 313	Contemporary Japanese Culture/Society	PLS 440	Seminar on International Relations
JPS 343	Ecclesiology in Context	PLS 472	International Conflict
JPS 361	Social Justice and Service: Applications to the Dominican Republic	PLS 537	International Law
JRM 365	International Mass Communications	PSY 428	Multicultural Issues in Psychology
MUS 375	Music of the World's Peoples	SOC 307	Demography: World Population Issues
NAS 319	Art International	SOC 317	Global Health Issues
NAS 324	Native American World View, Cultures and Values	SOC 350	Social Change
NAS 331	Indians of the Great Plains	SOC 355	Env. and Society: Soc. Perspectives
NAS 335	Federal Indian Policy and Law	SOC 360	Gender, Society and Culture
NAS 340	Native American Culture and Health	SOC 499	Globalization
NAS 343	Peoples/Cultures Native North America	SWK 335	Federal Indian Policy and Law
NAS 346	Peoples and Cultures of Latin America	SWK 365	Issues of the Native American Experience
NAS 353	Intro to Native American Literature	THL 343	Ecclesiology in Context
NAS 358	Critical Issues in the Study of Native American Religions	THL 351	Intro. to Chinese Philosophy
NAS 365	Issues of the Native American Experience	THL 352	Witchcraft, Oracles & Magic
PHL 324	Native American World View, Cultures and Values	THL 353	Introduction to Buddhism
PHL 332	World Philosophy	THL 354	Introduction to Judaism
PHL 351	Introduction to Chinese Philosophy	THL 356	Christianity in Africa
PHL 353	Introduction to Buddhism	THL 357	Introduction to Islam
PLS 303	Politics of Russia and the USSR Successor States	THL 358	Critical Issues in the Study of Native American Religions
PLS 305	Eastern European Political Systems	THL 359	Living Religions of the World
PLS 313	Politics of the Middle East	THL 361	Social Justice and Service
PLS 314	Politics of Post Comm. South Eurasia	THL 525	Archaeological Fieldwork and Analysis
PLS 315	Politics of Asia	THL 526	Archaeology of Roman Palestine
		THL 574	Faith and Food (When taught in the Sciences)
		WGS 360	Gender, Society and Culture

CORE CATEGORY C – NATURAL SCIENCES

7 credits – Must include one laboratory.

ATS 113	Intro to Atmospheric Sciences (3)	EVS 113	Intro to Atmospheric Sciences (3)
ATS 114	Intro to Atmospheric Sciences Lab (1)	EVS 114	Intro to Atmospheric Sciences Lab (1)
ATS 210	Surviving on Earth	EVS 210	Surviving on Earth
ATS 231	Severe and Unusual Weather (3)	PHY 107	Introductory Astronomy (3)
BIO 141	Charles Darwin: Life and Impact (3)	PHY 108	Introductory Astronomy Lab (1)
BIO 149	Human Biology (3)	PHY 127	Sound and Music (3)
BIO 150	Biotechnology and Society (3)	PHY 137	Light, Color and Lasers (3)
BIO 211	General Biology I (4)	PHY 147	Einstein and Modern Physics (3)
BIO 212	General Biology II (4)	PHY 157	Energy in Modern Society (3)
CHM 105	Introductory Chemistry (3)	PHY 187	Introduction to Physics (3)
CHM 201	Chemistry of Consumer Products (3)	PHY 188	Physics in the Everyday World (1)
CHM 203	General Chemistry I (3)	PHY 211	General Physics I (4)
CHM 204	General Chemistry I Lab (1)	PHY 212	General Physics II (4)
CHM 205	General Chemistry II (3)	PHY 221	Mathematical Modeling of the Physics World I (3)
CHM 206	General Chemistry II Lab (1)	PHY 222	Mathematical Modeling of the Physics World II (3)
CHM 285	Advanced General Chemistry II (3)	PHY 223	Project Physics Laboratory I (1)
CHM 286	Advanced Analysis Laboratory (2)	PHY 224	Project Physics Laboratory II (1)
CSC 121	Computers and Scientific Thinking		
ERG 211	Design and Rapid Prototyping Lab I (1)		
ERG 212	Design and Rapid Prototyping Lab I (1)		

CORE CATEGORY D – SOCIAL AND BEHAVIORAL SCIENCES

2 courses - must be taken from two different fields

AMS 102	Introduction to Sociology: Social Problems
AMS 121	American Politics and Government
ANT 101	Introduction to Native American Studies: Anthropological Approaches
ANT 111	Introduction to Anthropology
ANT 112	Culture, Energy and Sustainability
COM 111	Introduction to Communication Studies
ECO 203	Introductory Microeconomics
EDU 207	Educational Psychology (Education Majors only)
EDU 210	Child and Adolescent Development (Education Majors only)
ERG 351	Energy Policy
NAS 101	Introduction to Native American Studies: Anthropological Approaches
PLS 101	Introduction to Politics
PLS 105	Introduction to World Politics
PLS 121	American Politics and Government
PLS 215	Comparative Political Systems
PSY 111	Introductory Psychology
SOC 101	Introduction to Sociology: Self and Society
SOC 102	Introduction to Sociology: Social Problems

CORE CATEGORY E — SKILLS

College Writing

ENG 150	Rhetoric and Composition
ENG 151	Design and Rapid Prototyping Lab I (1 credit)
ENG 152	Design and Rapid Prototyping Lab III (1 credit)
ENG 153	Design and Rapid Prototyping Lab IV (1 credit)

Mathematics — (one of the following)

MTH 201	Applied Mathematics
MTH 245	Calculus I
MTH 249	Modeling the Physical World I
ANT/HAP/SOC 314	Statistics for the Social Sciences

Speech/Studio/Performing Arts - (three credits chosen from either of the following two areas)

Speech

COM 152	Principles of Communication Competence
COM 153	Design and Rapid Prototyping Lab I (1 credit)
COM 154	Design and Rapid Prototyping Lab III (1 credit)
COM 155	Design and Rapid Prototyping Lab IV (1 credit)

Studio/Performing Arts

ART 104	Elementary School Art (EDU Majors)	DAN 121	Basic Modern Dance I
ART 105	Art Fundamentals	DAN 131	Classical Ballet Studio, Basic I
ART 153	Sculpture I	DAN 153	Stagecraft
ART 154	Clay Modeling I	MUS 208	Jazz Ensemble I
ART 155	Welded Metal Sculpture I	MUS 209	Gospel Choir I
ART 156	Bronze Casting I	MUS 212	University Chorus I
ART 157	Stone Carving I	MUS 218	Wind Ensemble I
ART 201	Arts and Civic Engagement	MUS 219	Javanese Gamelan I
ART 211	Introductory Ceramics	MUS 220	University Orchestra I
ART 253	Sculpture II	MUS 271	Voice Class
ART 271	Photography Studio I	MUS 313	Chamber Choir
ART 301	Arts and Civic Engagement	THR 121	Oral Interpretation of Literature
ART 390	Sculptural Glass Casting	THR 131	Beginning Acting I
DAN 101	Introduction to the Dance	THR 153	Stagecraft I
DAN 110	Dance Studies I	THR 271	Voice Class
DAN 111	Dance Studies II		

Languages - A minimum of 6 credits in one language (the equivalent of two semester courses) at 100 level if learning it for the first time or 3 credits of language 201 with previous knowledge of that language.

ARA 101/102	Elementary Modern Arabic I and II	ITA 202	Intermediate Italian II
ARA 115	Elementary Modern Standard Arabic	JPN 101/102	Beginning Japanese I and II
ARA 201	Intermediate Modern Arabic I	JPN 201	Intermediate Japanese I
CHN 101/102	Beginning Chinese I and II	JPN 202	Intermediate Japanese II
CHN 201	Intermediate Chinese I	LAT 101/102	Beginning Latin I and II
CHN 202	Intermediate Chinese II	LAT 115	Intensive Beginning Latin
FRN 101/102	Beginning French I and II	LAT 201	Intermediate Latin
FRN 115	Intensive Beginning French	RUS 101/102	Beginning Russian I and II
FRN 201	Intermediate French I	RUS 201	Intermediate Russian I
FRN 202	Intermediate French II	SPN 101/102	Beginning Spanish I and II
GER 101/102	Beginning German I and II	SPN 113/114	Beginning Spanish for the Medical Professionals I and II
GER 115	Intensive Beginning German	SPN 115	Intensive Beginning Spanish
GER 201	Intermediate German I	SPN 201	Intermediate Spanish I
GER 202	Intermediate German II	SPN 202	Intermediate Spanish II
GRK 101/102	Beginning Greek I and II	SPN 213	Intermediate Spanish for the Medical Professionals I
GRK 115	Intensive Beginning Greek		
GRK 201	Intermediate Greek		
HEB 101/102	Intro to Classical Hebrew I and II		
ITA 101/102	Beginning Italian I and II		
ITA 201	Intermediate Italian I		

Note: The equivalent of two semester courses in ASL instruction or demonstrated competency in ASL will also satisfy this requirement.

CERTIFIED WRITING COURSES

Required: Four courses

AFS 356	Christianity in Africa	BIO 572	Animal Behavior Laboratory
AFS 390	Introduction to African Literature	BIO 580	Current Topics in Ecology
AFS 398	Literature of Francophone Africa	BKS 356	Christianity in Africa
AFS 400	Seminar in African Studies	BKS 390	Introduction to African Literature
AFS 405	Ethnicity, Nationalism and Democracy	BKS 393	African-American Literature
AFS 411	Politics of Africa	BKS 398	Literature of Francophone Africa
AFS 485	Society and Belief Systems in Africa	BKS 411	Politics of Africa
AFS 489	Southern Africa: The Politics of Race	BKS 482	Race in America: Idea and Reality
AMS 302	American Studies Seminar	BKS 485	Society and Belief Systems in Africa
AMS 310	Religion in Contemp. American Society	BKS 489	South Africa: The Politics of Race
AMS 312	Mass Media and Modern Culture	CHM 215	Natural Sciences I
AMS 316	Qual. Methods in the Social Sciences	CHM 216	Natural Sciences II
AMS 339	Public Policy and Poverty in the U.S.	CHM 342	Physical Chemistry I Laboratory
AMS 345	Sports in American Culture	CHM 382	Fundamentals of Biochemistry-Lab
AMS 355	Environment and Society	CHM 444	Physical Chemistry II
AMS 360	Gender, Society and Culture	CHM 497	Directed Independent Research
AMS 393	African-American Literature	CNE 306	Literature of Ancient Greece
AMS 406	German Immigrant Culture	CNE 308	Literature of Ancient Rome
AMS 415	Thoreau's Walden	CNE 311	Classical Mythology
AMS 426	The West of the Imagination	CNE 313	The Hero in Antiquity
AMS 482	Race in America	CNE 349	Egyptian Art and Archaeology
AMS 491	Senior Seminar	CNE 369	Medieval Art and Architecture
ANT 302	American Studies Seminar	CNE 371	History of Hellenistic Philosophy
ANT 307	Demography: World Population Issues	CNE 372	History of Medieval Philosophy
ANT 312	Quan. Methods in the Social Sciences	CNE 420	Selected Topics in Ancient History
ANT 316	Qual. Methods in the Social Sciences	CNE 425	Myths That We Live By
ANT 345	Sports in American Culture	CNE 498	Senior Capstone Seminar
ANT 350	Social Change	CNE 520	The Dead Sea Scrolls
ANT 355	Environment and Society	CNE 524	History of Ancient Israel
ANT 360	Gender, Society and Culture	COM 312	Mass Media & Modern Culture
ANT 362	Applied Anthropology	COM 320	Leadership: Theories, Styles & Skills
ANT 363	Medical Anthropology	COM 321	Persuasion
ANT 383	Cultural Epidemiology	COM 359	Rhetoric and Public Culture
ANT 400	Topical Seminar in Anthropology (Topic-African Religions only)	COM 361	Interpersonal Communication
ANT 409	Race and Gender Relations	COM 380	History and Criticism of Cinema
ANT 442	Cultural Communication	COM 390	Health Communication
ANT 444	Non-Violence and Peaceful Resolution	COM 440	Gender Communication
ANT 499	Globalization	COM 442	Cultural Communication
ARH 349	Egyptian Art and Archaeology	COM 462	Gender, Work, and Organizing
ARH 369	Medieval Art and Architecture	COM 463	Organizational Assessment
ARH 372	History of Northern Renaissance Art	COM 477	Gendered Health Communication
ARH 375	History of Italian Renaissance Art	COM 478	Intersections of Working Personal Life
ARH 383	History and Aesthetics of Photography	COM 489	Visual Construction of Modern Culture
ARH 386	The History, Aesthetics of Latin Photo	COM 496	Communication Internships
ARH 394	Modern European Art, 1900-1945	COU 390	Residence Hall Advising
ARH 435	Women, Art and Society	COU 575	Intro to Student Develop. Programming
ART 380	History and Criticism of Cinema	CSC 444	Human Computer Interaction
ART 428	Film and the Fine Arts	CSC 448	Freedom/Security Dig.-Divided Society
ATS 510	Introduction to Physical Meteorology	CSC 599	Senior Capstone
ATS 542	Radar Remote Sensing	ECO 408	Social Economics & Political Economy
ATS 574	Stratospheric Dynamics	ECO 528	International Economic Development
BIO 385	Ecology, Geography & Health of Lakes	EDP 361	Social Justice in the DR
BIO 419	Molecular Biology Laboratory	EDU 210	Child and Adolescent Development
BIO 435	Coastal and Estuarine Ecology	EDU 275	Seminar on Peer Education
BIO 440	Field Biology of the Desert Southwest	EDU 320	Leadership: Theories, Styles and Skills
BIO 481	Terrestrial Ecology	EDU 345	Philosophy for Children
BIO 487	Marine Ecology Laboratory	EDU 450	Violence in America
BIO 517	Current Topics in Genetics	EDU 463	Organizational Assessment
BIO 532	Cell Biology	EDU 470	Poverty in America
BIO 539	Ecology of Zoonotic Diseases	EDU 525	Mildly/Mod. Handicapped Student
BIO 549	Environmental Physiology	EDU 528	Speech and Language Development
BIO 551	Current Topics in Microbiology	EDU 566	Methods of Teaching of Reading
BIO 559	Special Topics in Physiology	ENG 201	Interpreting Texts
BIO 563	Introduction to Neurobiology Lab	ENG 202	Entering a Professional Dialogue
		ENG 251	Advanced Composition

CERTIFIED WRITING COURSES (continued)

Required: Four courses

ENG 252	Honors Advanced Composition	HAP 383	Cultural Epidemiology
ENG 254	Writing About Literature	HAP 390	Health Communication
ENG 300	Introduction to Creative Writing	HAP 456	Public Health Ethics
ENG 301	Creative Writing: Narrative Forms	HAP 457	Biomedical Ethics
ENG 302	Creative Writing: Poetic Forms	HAP 477	Gendered Health Across the Lifespan
ENG 310	Writing Strategies for the Organization	HIS 300	Historiography
ENG 312	Mass Media and Modern Culture	HIS 302	AMS Seminar: The American Character
ENG 314	Explorations of the Essay	HIS 349	Egyptian Art and Archaeology
ENG 315	Technical and Professional Writing	HIS 400	Research Methods in History
ENG 317	Composition Theory and Practice	HIS 406	German Immigrant Culture
ENG 353	Intro to Native American Literature	HIS 416	For the Greater Glory
ENG 372	Western Lit. of the United States	HIS 420	Selected Topics in Ancient History
ENG 380	History and Criticism of Cinema	HIS 431	Mathematical History, Phil. and Ethics
ENG 381	Literature and the Environment	HIS 478	Jerusalem in History
ENG 382	History and Future of the Book	HIS 482	Race in America: Idea and Reality
ENG 390	Introduction to African Literature	HIS 485	Society and Belief Systems in Africa
ENG 393	African-American Literature	HIS 489	Southern Africa: The Politics of Race
ENG 398	Literature of Francophone Africa	HIS 500	Senior Seminar in Social Sciences
ENG 404	Screenwriting	HIS 524	History of Ancient Israel
ENG 410	Women in Literature	JPS 361	Social Justice and Service
ENG 411	Milton	JPS 444	Non-Violence and Peaceful Resolution
ENG 412	Studies in Major Authors	JPS 465	Faith and Political Action
ENG 420	Utopian Literature	JPS 470	Poverty in America
ENG 432	The Irish Renaissance	JPS 565	Catholic Social Teaching
ENG 438	Literacy and Community	JRM 219	Media Writing
ENG 439	Literacy and Technology	JRM 220	Professional Writing
ENG 440	Introduction to Green Cultural Studies	JRM 321	Advanced Reporting
ENG 472	Alternative Discourse in the Academy	JRM 322	Feature Writing
ENG 476	Writing and Working for Justice	JRM 326	Sportswriting
ENG 479	Creative Writing Internship	JRM 335	History of American Mass Media
ENG 481	Senior Seminar II: British Literature	JRM 341	Public Relations Writing
ENG 482	Senior Seminar III: American Literature	JRM 433	Advertising Copy Writing
ENG 483	Senior Seminar IV: Irish Literature	JRM 438	Media Ethics
ENG 484	Senior Seminar V: Special Topics	JRM 477	Advanced Newspaper Production
ENG 489	American Prisons	LAT 498	Senior Capstone Seminar
ENG 499	Senior Project	MTH 431	Mathematical History, Phil. and Ethics
EVS 307	Demography: World Population Issues	MTH 581	Modern Algebra I
EVS 333	Environmental Politics and Policy	MTH 591	Analysis I
EVS 355	Environment and Society	NAS 316	Qual. Methods in the Social Sciences
EVS 385	Ecology, Geography & Health of Lakes	NAS 353	Intro to Native American Literature
EVS 435	Coastal and Estuarine Ecology	NAS 499	NAS Senior Capstone
EVS 440	Field Biology of the Desert Southwest	PHL 331	Moral Philosophy
EVS 481	Terrestrial Ecology	PHL 332	World Philosophy
EVS 487	Marine Ecology Laboratory	PHL 345	Philosophy for Children
EVS 539	Ecology of Zoonotic Diseases	PHL 351	Introduction to Chinese Philosophy
EVS 549	Environmental Physiology	PHL 353	Introduction to Buddhism
EVS 572	Animal Behavior Laboratory	PHL 357	Bioethics
EVS 580	Current Topics in Ecology	PHL 358	Social and Political Philosophy
EXS 306	Therapeutic Exercise	PHL 365	Classics of Political Thought
EXS 350	Nutrition Health/Sports Performance	PHL 371	History of Hellenistic Philosophy
EXS 407	Basic Statistics and Research Design	PHL 372	History of Medieval Philosophy
EXS 491	Exercise Leadership/Program Admin.	PHL 373	History of Modern Philosophy
FRN 412	Advanced Written French	PHL 374	History of 19th-Century Philosophy
FRN 449	Intro to Contemp. French Literature	PHL 401	Themes in Contemporary Philosophy
FRN 551	Women Writers in French Lit	PHL 415	Thoreau's Walden
FRN 552	La littérature quebecoise contemporaine	PHL 420	Science and Religion
GDE 599	Senior Capstone	PHL 434	Philosophy of East Asian Lit. And Film
GER 303	German Literature and Civilization I	PHL 450	Philosophy and Commercial Societies
GER 304	German Literature and Civilization II	PHL 456	Public Health Ethics
GER 374	History of 19th-Century Philosophy	PHL 457	Biomedical Ethics
GER 406	German Immigrant Culture	PHL 460	Humanity & Concept of Future
GRK 498	Senior Capstone Seminar	PHL 462	The Thought of John Paul II
HAP 312	Quan. Methods in the Social Sciences	PHL 482	Race in America
HAP 331	Managing the Public/Non-Profit Sectors	PHY 351	Physics in Medicine

CERTIFIED WRITING COURSES (continued)

Required: Four courses

PHY 353	Introduction to Biological Physics	SPN 599	Senior Seminar
PHY 491	Physics Seminar	SRP 401	Science/Uncertainty Pluralistic World
PHY 558	Relativity: Special & General Theories	SRP 409	Race and Gender Relations
PHY 559	Gravitation and Cosmology	SRP 412	Sickness, Disability, and Healing
PHY 562	Nuclear Instruments and Methods	SRP 416	The Jesuits, their History & Spirituality
PLS 215	Comparative Political Systems	SRP 420	Science and Religion
PLS 301	Western European Political Systems	SRP 422	Children of Poverty
PLS 303	Politics of Russia/USSR States	SRP 425	Myths That We Live By
PLS 305	Eastern European Political Systems	SRP 426	The West of the Imagination
PLS 313	Politics of the Middle East	SRP 428	Film and the Fine Arts
PLS 314	Politics Post-Communist South Eurasia	SRP 430	Ethics in Post-Communist Countries
PLS 315	Politics of Asia	SRP 431	Mathematical History, Phil. and Ethics
PLS 317	Latin American Government & Politics	SRP 434	Philosophy East Asian Lit. And Film
PLS 319	Politics of the Developing Areas	SRP 436	Politics of Science and Technology
PLS 326	Governing Metropolitan Areas	SRP 437	Environment and Race, Class & Gender
PLS 331	Managing the Public/Non-Profit Sectors	SRP 438	Literacy and Community
PLS 333	Environmental Politics and Policy	SRP 439	Literacy and Technology
PLS 339	Public Policy and Poverty in the U.S.	SRP 441	Education, Vocation and Discernment
PLS 342	Foreign Policy/Diplomacy Major Powers	SRP 444	Non-Violence and Peaceful Resolution
PLS 345	International Political Economy	SRP 448	Freedom/Security Dig.-Divided Society
PLS 347	International Regimes	SRP 450	Violence in America
PLS 362	Conservative Political Thought	SRP 456	Public Health Ethics
PLS 365	Classics of Political Thought	SRP 457	Biomedical Ethics
PLS 405	Ethnicity, Nationalism and Democracy	SRP 458	Theology and Vocation to Health Care
PLS 411	Politics of Africa	SRP 460	Humanity & Concept of Future
PLS 420	Seminar: The First Amendment (This Topic Only)	SRP 465	Faith and Political Action
PLS 430	Ethics in Post-Communist Countries	SRP 468	Christianity and Power
PLS 435	Global Poverty and Development	SRP 469	Psychological & Theological Approaches
PLS 436	Politics of Science and Technology	SRP 470	Poverty in America
PLS 438	Contemporary Issues in Civil Liberties	SRP 477	Gendered Health Across the Lifespan
PLS 439	First Amendment to the Constitution	SRP 478	Intersections of Working Personal Life
PLS 444	Non-Violence and Peaceful Resolution	SRP 481	Poverty, Development & Public Policy
PLS 465	Faith and Political Action	SRP 482	Race in America
PLS 468	Christianity and Power	SRP 487	The Bible and the Holocaust
PLS 481	Poverty, Development & Public Policy	SRP 489	American Prisons
PLS 482	Race in America	SWK 275	Human Behavior & Social Environment
PLS 591	Senior Research Seminar	SWK 339	Public Policy and Poverty in the U.S.
PSY 316	Research Methods and Statistics II Lab	SWK 351	Economic, Policy and Social Welfare
PSY 353	Industrial Psychology	SWK 409	Race and Gender Relations
PSY 363	Psychology and the Law	SWK 422	Children of Poverty
PSY 374	Human Sexuality	SWK 435	Practice III
PSY 424	History and Systems of Psychology	THL 349	Egyptian Art and Archaeology
PSY 426	Evolutionary Psychology	THL 351	Introduction to Chinese Philosophy
PSY 491	Honors Seminar	THL 353	Introduction to Buddhism
SOC 307	Demography: World Population Issues	THL 354	Introduction to Judaism
SOC 310	Religion in Contemp. American Society	THL 356	Christianity in Africa
SOC 312	Quan. Methods in the Social Sciences	THL 357	Introduction to Islam
SOC 316	Qual. Methods in the Social Sciences	THL 359	Living Religions of the World
SOC 320	Sociology of Deviant Behavior	THL 361	Social Justice and Service
SOC 321	Sociology of the Criminal Justice System	THL 416	The Jesuits, their History & Spirituality
SOC 333	Social Psychology	THL 420	Science and Religion
SOC 350	Social Change	THL 457	Biomedical Ethics
SOC 355	Environment and Society: Perspectives	THL 458	Theology and Vocation to Health Care
SOC 360	Gender, Society and Culture	THL 468	Christianity and Power
SOC 423	Law and Society	THL 469	Psychological & Theological Approaches
SOC 440	Gender Communication	THL 492	Senior Seminar for Theology Majors
SOC 499	Globalization	THL 508	Gospel of Mark
SPN 401	Advanced Spanish Composition	THL 509	Gospel of Luke and Acts of Apostles
SPN 422	Latin-American Culture/Civilization	THL 516	The Book of Revelation
SPN 425	Introduction to Literary Analysis	THL 518	Women and the Bible
SPN 555	20th Century Latin American Theatre	THL 520	The Dead Sea Scrolls
SPN 556	Understanding Latin American Boom	THL 524	History of Ancient Israel
		THL 531	Studies in Early Christianity
		THL 534	Introduction to Liberation Theology

CERTIFIED WRITING COURSES (continued)*Required: Four courses*

THL 538	Seminar in Christian Anthropology	THR 465	Theatre History (5th Century, B.C.-1700)
THL 539	Seminar in Christian Eschatology	THR 466	World Theatre History (1700-Present)
THL 552	Studies in Medieval Christianity	WGS 360	Gender, Society and Culture
THL 555	Major Christian Theologian	WGS 409	Race and Gender Relations
THL 556	Christianity and Modern Humanism	WGS 410	Women in Literature
THL 561	Finding God in Daily Life	WGS 435	Women, Art and Society
THL 563	Contemporary Moral Problems	WGS 440	Gender Communication
THL 565	Catholic Social Teaching	WGS 462	Gender, Work, and Organizing
THL 568	Women in the Christian Tradition	WGS 477	Gendered Health Across the Lifespan
THL 575	Foundations of Christian Spirituality	WGS 518	Women and the Bible
THR 428	Film and the Fine Arts	WGS 551	Women Writers in French Lit
THR 461	American Theatre History		

Degrees

The College of Arts and Sciences awards 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 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 apply and be accepted by a major program. Ordinarily, students apply for their major programs during their Sophomore year. Some students may apply for the major earlier, and may do so after completing their first semester at Creighton.

In order to apply, students must have an overall GPA of 2.00 and have satisfied any specific requirements as indicated by the major department in this bulletin. Application for major programs is found online through the link found at <http://www2.creighton.edu/ccas/formsandlinks>.

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 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 sequence of courses. Other programs offer 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 in order to focus their major program more narrowly.

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
Art History
Classical Languages: Greek Track
Classical Languages: Latin Track
Classical and Near Eastern Civilizations
Communication Studies
Cultural Anthropology
Economics
English
 American Literature Specialization
 British Literature Specialization
 Creative Writing Specialization
 English Education Specialization
 Rhetoric and Composition Specialization
French and Francophone Studies
German Studies
Graphic Design
History
 International Relations Specialization
International Relations
Journalism: Advertising Track
Journalism: New Media Track
Journalism: News Track
Journalism: Photo Journalism Track
Journalism: Public Relations Track
Justice and Society
Medical Anthropology
Music
Native American Studies
Philosophy
 Ethics Specialization
Political Science: Legal Studies Track
Political Science: Political Science Track
Political Science: Public Policy Track
Psychology
Spanish and Hispanic Studies: Professional Track
Spanish and Hispanic Studies: Literary Track
Studio Art
Sustainable Energy
Theatre
Theology
 Biblical Studies Specialization
 Doctrinal, Historical or Liturgical Theology
 Specialization
 Christian Life Studies Specialization

Bachelor of Fine Arts (B.F.A.)

Studio Art
Musical Theatre
Theatre: Performance Track
Theatre: Technical Track

Bachelor of Science (B.S.)

Applied Physical Analysis
Atmospheric Sciences
Biology
Chemistry: Generalist Track
Chemistry: Chemistry Education Track
Digital Design and Development
Elementary Education
 Special Education for the Mildly/Moderately
 Handicapped P-6 Specialization
 Special Education for the Mildly/Moderately
 Handicapped 7-12 Specialization
 English as a Second Language (P-12) Teaching
 Endorsement Specialization
Energy Science
Exercise Science
Health Administration and Policy
Informatics and Computing Science
Mathematics
Physics
Sociology: Standard Sociology Track
Sociology: Applied Research Methods Track
Sociology: Criminal Justice Policy Track

Bachelor of Science in Atmospheric Sciences (B.S. Ats.)

Atmospheric Sciences

Bachelor of Science in Chemistry (B.S.Chm.)

Chemistry Track
Biochemistry Track

Bachelor of Science in Environmental Sciences (B.S. Evs.)

Global and Environmental Systems 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. 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.

A student 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. Students declare minors online. The Minor Declaration Form can be found at <http://www.creighton.edu/ccas/formsandlinks>.

African Studies	Historical and Systematic Theology
American Studies	History
Ancient Greek	History and Philosophy of Science
Ancient History	International Relations
Applied Ethics: Philosophical and Theological Approaches	Italian
Art History	Justice and Peace Studies
Asian Studies	Latin
Atmospheric Sciences	Legal Studies
Behavioral and Cognitive Neuropsychology	Mathematics
Biblical Studies	Mathematical Logic
Biological Physics	Medical Anthropology
Biology	Military Science
Black Studies	Music
Business (offered through the College of Business)	Native American Studies
Christian Life Studies	Political Science
Classical and Near Eastern Civilizations	Philosophy
Communication Studies	Physics
Criminal Justice Policy	Public Health
Dance	Public Policy
Economics (offered through the College of Business)	Sociology
English	Social Entrepreneurship (offered through the College of Business)
Environmental Policy	Sustainable Energy
Environmental Science	Spanish and Hispanic Studies
European Studies	Studio Art
Film Studies	Theatre
French and Francophone Studies	Women's and Gender Studies
German Studies	
Globalization: Social and Cultural Issues	
Health Administration and Policy	

Associate Degrees

Associate Degrees at Creighton University are offered through University College. See page 287 for information.

ACADEMIC DEPARTMENTS AND INTERDISCIPLINARY PROGRAMS

AFRICAN STUDIES

Program Director: James S. Wunsch
Program Office: Creighton Hall, 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

AFRICAN STUDIES MINOR

Program Description: The African Studies minor offers students an overview of historical, literary, political and ethnographic material about Africa. The African Studies minor empowers all students to be better citizens and members of increasingly global social and professional communities. Students with this background will be able to understand the African continent and its people and will, hence, become more culturally aware medical practitioners, immigration lawyers, and international business negotiators.

Contact: Director, African Studies Program

(All of the following:)

AFS 342	Peoples and Cultures of Sub-Saharan Africa	3 credits
AFS 390	Introduction to African Literature	3 credits
AFS 411	Politics of Africa	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

For all AFS courses, please refer to page 286.

AMERICAN STUDIES

Program Directors: Heather E. Fryer, Tracy N. Leavelle
Program Office: Creighton Hall, Room 329D

Program Description: The American Studies Program seeks to prepare graduates with the knowledge and skills to bring critical insights to the study of the American experience in all its diversity, past and present. Faculty members aim to stimulate critical and creative thinking through interdisciplinary and comparative study with attention to transnational issues and current theoretical frameworks.

Web Contact/Information: Additional information about this department may be found at <http://www2.creighton.edu/ccas/americanstudies>. 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 307 Introduction to American Studies with a grade of "C" or better.

B. A., Major in American Studies: 30 Credits

Course Requirements

(All of the following:)

AMS 307	Introduction to American Studies	3 credits
AMS 308	Theories and Methods in American Studies	3 credits
AMS 491	Senior Seminar	3 credits

(Two courses from three of the following groups:)

American Fine and Performing Arts

AMS 353	Jazz in American Culture	3 credits
AMS 384	History of American Architecture	3 credits
AMS 385	Survey of American Art	3 credits
AMS 387	Modern Hispanic Art History	3 credits
AMS 426	The West of the Imagination	3 credits
AMS 467	History of The Art of Spain and Her Colonies	3 credits
AMS 468	Native American Art	3 credits
ARH 386	History & Aesthetics of Latin American Photography	3 credits
THR 461	American Theatre History	3 credits

American History

AMS 406	German Immigrant Culture in the United States	3 credits
AMS 460	The History of Women in the United States	3 credits
AMS 482	Race in America: Idea and Reality	3 credits
HIS 108	The Native American World	3 credits
HIS 311	United States History to 1877	3 credits
HIS 312	United States History Since 1877	3 credits
HIS 355	Constitutional History of the United States Since 1877	3 credits
HIS 357	Religion in American Society to 1865	3 credits
HIS 358	Religion in American Society from 1865 to the Present	3 credits
HIS 367	The Afro-American Experience	3 credits
HIS 372	Equality, Minorities, and Public Policy	3 credits
HIS 375	The United States and Latin America	3 credits
HIS 384	Black History Through Literature	3 credits
HIS 449	The American Colonies	3 credits
HIS 450	Revolutionary America	3 credits
HIS 451	The Early American Republic	3 credits
HIS 452	The Civil War and Reconstruction	3 credits
HIS 458	The Sixties	3 credits
HIS 565	The United States and Canada	3 credits

American Literatures

AMS 312	Mass Media and Modern Culture	3 credits
AMS 329	American Literature/American Identity	3 credits
AMS 350	American Literature I: Beginnings to Civil War	3 credits
AMS 393	African-American Literature	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 371	American Literature: Vision and Reality	3 credits
ENG 381	Literature and the Environment	3 credits
ENG 389	The Roaring Twenties	3 credits
ENG 405	The Thirties	3 credits
ENG 434	Irish-American Literature	3 credits
ENG 469	Modern American Poetry	3 credits
ENG 470	Seminar in Film 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

American Philosophy

AMS 317	Philosophy of Sport	3 credits
AMS 367	American Philosophy	3 credits
AMS 465	American Pragmatism	3 credits
PHL 348	Philosophy of Feminism	3 credits

American Politics

AMS 121	American Government and Politics	3 credits
AMS 325	American States and Regions	3 credits
AMS 327	Minority Politics in America	3 credits
AMS 328	Mass Media in American Politics	3 credits
AMS 335	Federal Indian Policy and Law	3 credits
AMS 339	Public Policy and Poverty in the United States	3 credits
AMS 372	Equality, Minorities, and Public Policy	3 credits
AMS 432	Democratic Theory	3 credits
AMS 437	Religion and Public Life in the United States	3 credits
PLS 322	American Presidency	3 credits
PLS 438	Contemporary Issues in Civil Liberties	3 credits

American Society and Culture

AMS 102	Introduction to Sociology: Social Problems	3 credits
AMS 301	Social and Cultural Theory	3 credits
AMS 310	Religion and Contemporary American Society	3 credits
AMS 316	Qualitative Methods in the Social Sciences	3 credits
AMS 318	Gender in American Society	3 credits
AMS 330	Museums and Social Science	3 credits
AMS 331	Indians of the Great Plains	3 credits
AMS 340	Native American Cultures and Health	3 credits
AMS 341	American Cultural Minorities	3 credits
AMS 343	Peoples and Cultures of Native North America	3 credits
AMS 345	Sport in American Culture	3 credits
AMS 355	Environment and Society: Sociological Perspectives	3 credits
AMS 358	Critical Issues in Study of North American Religions	3 credits
AMS 360	Gender, Society and Culture	3 credits
AMS 365	Issues of the Native American Experience	3 credits
AMS 411	Social Inequality and Stratification	3 credits
AMS 470	Introduction to Geographic Information Systems	3 credits
ANT 330	Museums and Social Science	3 credits
SOC 205	American Family Issues	3 credits

<i>Inquiries in American Studies</i>		
AMS 395	Selected Topics	3 credits
AMS 400	Topical Seminar in American Studies	3 credits
AMS 493	Directed Independent Readings	3 credits
AMS 497	Directed Independent Research	3 credits
AMS 585	American Studies Internship	3 credits
One additional course from any of the above groups		3 credits

AMERICAN STUDIES MINOR

Program Description: The American Studies minor complements single-disciplinary studies in American politics, society, and culture through interdisciplinary approaches that are comparative, theoretical, and transnational in scope.

Contact: Director, American Studies Program

(All of the following:)		
AMS 307	Introduction to American Studies	3 credits
AMS 308	Theories and Methods in American Studies	3 credits

(Two courses from two of the following groups:)

American Fine and Performing Arts

(Same list from page 102)

American History

(Same list from page 102)

American Literatures

(Same list from page 103)

American Philosophy

(Same list from page 103)

American Politics

(Same list from page 103)

American Society and Culture

(Same list from page 103)

Inquiries in American Studies

(Same list from page 104)

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 289.

ANTHROPOLOGY, See Department of Sociology and Anthropology, page 199.

ASIAN STUDIES

Program Director: Jinmei Yuan; Maorong Jiang
Program Office: Creighton Hall, Room 341

Program Description: Asian Studies is an interdisciplinary program designed to provide 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 further study in this field.

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 ASIAN STUDIES

ASIAN STUDIES MINOR

Program Description: Asian Studies is an interdisciplinary program designed to provide 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 further study in this field.

Contact: Jinmei Yuan, Associate Professor of Philosophy; Maorong Jiang, Director of Asian World Center.

(All of the following:)

ASN 300 Introduction to Asian Studies 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 103 The Asian World 3 credits

HIS 467 Modern China 3 credits

HIS 468 Modern Japan 3 credits

(One of the following:)

PLS 315 Politics of Asia 3 credits

PLS 316 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

JPN 225 Kanji Writing 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 316 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

For the ASN 300 course description, please refer to page 306.

ATMOSPHERIC SCIENCES

Chair: Joseph A. Zehnder

Department Office: Hixson-Lied Science Building, Room 504

Professor: J. Zehnder;
Professor Emeritus: A. Douglas;
Associate Professor: J. Schrage;
Assistant Professor: T. Wagner.

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 in Atmospheric Sciences degree (B.S.Ats.) prepares students for graduate studies and research fields within the Atmospheric Sciences as well as fulfilling requirements of the American Meteorological Society and requirements for employment with the National Weather Service and other branches of the National Oceanic and Atmospheric Administration. The second option, the Bachelor of Science (B.S.) degree, will prepare students with a general background in 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. Ats., Major in Atmospheric Sciences: 44 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 211	Weather Analysis and Forecasting	3 credits
ATS 315	Computer Applications in Meteorology	3 credits
ATS 510	Introduction to Physical Meteorology	3 credits
ATS 555	Meteorological Remote Sensing	3 credits
ATS 561	Synoptic Meteorology I	3 credits
ATS 562	Synoptic Meteorology II	4 credits
ATS 570	Quantitative Methods in the Atmospheric Sciences	3 credits
ATS 571	Dynamic Meteorology I	3 credits
ATS 572	Dynamic Meteorology II	3 credits
At least 12 elective credits from ATS courses 400-level or above.		12 credits

Requisite Courses: MTH 245 and MTH 246 and MTH 545; PHY 211 and PHY 212.

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.

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 211	Weather Analysis and Forecasting	3 credits
ATS 443	Environmental Geology	4 credits
ATS 533	Physical Climatology and Climate Change	3 credits
ATS 541	Ats. Diffusion, Air Poll. Env. 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

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 306.

BIOLOGY

Chair: Mark Reedy

Associate Chair: Alistair Cullum

Department Office: Hixson-Lied Science Building, Room 448

Professors: T. Burk, J. Platz, J. Schalles; Professors Emeriti: R. Belknap, H. Nickla, A. Schlesinger;

Associate Professors: A. Cullum, M. Reedy, M. Vinton; Associate Professor Emerita: J. Roberts; Assistant Professors: C. Austerberry, C. Brockhouse, S. Cho, C. Fassbinder-Orth, A. Shibata, M. Taylor, 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 Creighton 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	Biostatistics	Lab	4 credits
BIO 419	Molecular Biology Laboratory	Lab	2 credits
BIO 432	Introduction to Immunology	Cell	3 credits
BIO 435	Coastal and Estuarine Ecology	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 501	Bioinformatics: Genomics Approach	Lab, Cell	4 credits
BIO 517	Current Topics in Genetics	Cell	3 credits
BIO 520	Cytogenetics	Lab, Cell	4 credits
BIO 523	Environmental Toxicology	Pop	3 credits
BIO 532	Current Topics in Cell. and Mol. Biology	Cell	3 credits
BIO 539	Ecology of Zoonotic Diseases	Pop	3 credits
BIO 549	Environmental Physiology	Org	3 credits
BIO 551	Current Topics in Microbiology	Cell	3 credits
BIO 559	Special Topics in Physiology	Org	3 credits
BIO 561	Entomology	Lab, Org	4 credits
BIO 562	Neurobiology	Cell, Org	3 credits
BIO 563	Neurobiology Laboratory	Lab	2 credits
BIO 567	Current Topics in Neuroscience	Cell	3 credits
BIO 571	Animal Behavior	Org	3 credits
BIO 572	Animal Behavior Laboratory	Lab	2 credits
BIO 580	Current Topics in Ecology	Pop	3 credits
BIO 581	Evolution	Lab, Pop	4 credits

BIO 493, 495 and 497 do not apply toward the major requirements. BIO 490 can be applied toward the lab requirement if taken twice.

Upon petition prior to enrollment, courses in departments other than Biology (such as CHM 371 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.

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 and molecular, organismal, and ecological 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 interdisciplinary 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 in BIO courses numbered 300 and above.		10 credits

The ten additional credits must include at least one lecture+laboratory or laboratory-only course.

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.

Teacher Certification

Students who plan to teach Biology in secondary schools should consult with the Education Department, the Biology Department, and 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 311.

BLACK STUDIES

Program Office: Creighton Hall, Room 130B

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

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 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 411	Politics of 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

Anthropology/Sociology/Psychology

(One of the following:)

BKS 309	The Urban Social System	3 credits
BKS 341	American Cultural Minorities	3 credits
PSY 478	Multicultural Issues in Psychology	3 credits

Literature/ Fine Arts

(One of the following:)

ARH 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

For all BKS courses, please refer to page 315.

CHEMISTRY

Chair: Martin R. Hulce

Associate Chair: David A. Dobberpuhl

Department Office: Hixson-Lied Science Building, Room 268

Professors: M. Hulce, B. Mattson, J. Soukup;

Associate Professors: D. Dobberpuhl, J. Fletcher, M. Freitag, E. Gross, S. Gross, H. Harris, F. Klein, G. Michels; Associate Professors Emeriti: R. Snipp, D. Zebolsky;

Assistant Professors: M. Anderson, E. Haas, M. Miller, B. Parsons.

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 two lecture courses within the Creighton chemistry department and completion of MTH 246. 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: 23-33 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

(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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(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 556	Electrochemical Methods	3 credits
CHM 575	Nucleic Acid Biochemistry	3 credits
CHM 576	Protein 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 528	Polymer Chemistry Laboratory	1 credit
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 381	Fundamentals of Biochemistry	3 credits

(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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Requisite courses: MTH 245 and MTH 246 are prerequisites for all chemistry courses beyond CHM 324. PHY 211 is a prerequisite and PHY 212 is a pre- or co-requisite for CHM 341. For students pursuing the Chemistry Education Track, 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
CHM 497	Directed Independent Research II	1 credit

(One of the following:)

CHM 496	Directed Independent Research I	2 credits
CHM 498	Directed Independent Research-Special	1-2 credits

(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 543	Selected Topics in Physical Chemistry	3 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 421	Selected Topics in Organic Chemistry	3 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 528	Polymer Chemistry Laboratory	1 credit
CHM 556	Electrochemical Methods	3 credits
CHM 575	Nucleic Acid Biochemistry	3 credits
CHM 576	Protein 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
CHM 497	Directed Independent Research II	1 credit

(One of the following):

CHM 496	Directed Independent Research I	2 credits
CHM 498	Directed Independent Research-Special	1-2 credits

(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 521	Advanced Organic Chemistry: Synthetic Org. Methods	3 credits
CHM 523	Bioorganic Chemistry	3 credits
CHM 525	Organic Spectroscopic Analysis	3 credits
CHM 575	Nucleic Acid Biochemistry	3 credits
CHM 576	Protein Biochemistry	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 is a prerequisite and PHY 212 is a pre- or co-requisite 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 321.

CLASSICAL AND NEAR EASTERN STUDIES

Department Office: Humanities Center, Room 216

Professors: L. Greenspoon, R. Simkins (secondary appointment), W. Stephens;
Associate Professors: C. Clark, G. Bucher, M. Habash, J. Hause.

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://canes.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 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	6 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. LAT 115 counts as two different courses. 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	6 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. GRK 115 counts as two different courses. Repeating these courses will not fulfill the requirement.

Note: Students pursuing the Latin Track may not minor in Ancient Greek.

B.A., Major in Classical and Near Eastern Civilizations: 30 Credits

(All of the following:)

CNE 300	Introduction to the Ancient Mediterranean World	3 credits
CNE 498	Senior Capstone Seminar	3 credits

Three credits from each of the following four areas*:

Literature

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 381	Ancient Medicine	3 credits
CNE 423	Greek and Roman Comedy	3 credits
CNE 425	Myths That We Live By	3 credits
CNE 440	Selected Topics in Classical Literature	3 credits
CNE 462	Homer, Troy and the Trojan War	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 317	Women in Ancient Rome and Roman Egypt	3 credits
CNE 348	Muhammad and the Rise of Islam	3 credits
CNE 351	Warfare in the Classical World	3 credits
CNE 358	An Introduction to Roman Law	3 credits
CNE 401	Greek History to the Peloponnesian War	3 credits
CNE 402	Hellenistic History	3 credits
CNE 403	The Roman Republic	3 credits
CNE 404	The Roman Empire	3 credits
CNE 418	Great Empires of the Near East	3 credits
CNE 419	Ancient Egypt: History, Society and Culture	3 credits
CNE 420	Selected Topics in Ancient History	3 credits
CNE 524	History of Ancient Israel	3 credits



Philosophy/Religion

CNE 315	Religions in the Greco-Roman World	3 credits
CNE 360	History of Mediaeval Ethics	3 credits
CNE 370	History of Classical Greek Philosophy	3 credits
CNE 371	History of Hellenistic Philosophy	3 credits
CNE 372	History of Medieval Philosophy	3 credits
CNE 410	Stoicism	3 credits
CNE 460	Selected Topics in Ancient Philosophy	3 credits
CNE 520	The Dead Sea Scrolls	3 credits
CNE 523	Israelite Religions	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 357	Ancient Near Eastern Art and Archaeology	3 credits
CNE 362	Early Christian Art and Archaeology	3 credits
CNE 365	Greek Art	3 credits
CNE 366	Etruscan and Roman Art	3 credits
CNE 369	Medieval Art and Architecture	3 credits
CNE 430	Selected Topics in Ancient Art and Archaeology	3 credits
CNE 461	The City of Rome in Antiquity	3 credits
CNE 465	The City of Rome since Antiquity	3 credits
CNE 525	Archaeological Fieldwork and Analysis	3 credits
CNE 526	Archaeology of Roman Palestine	3 credits

An additional 12 upper-division credits chosen with the major advisor. 12 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 equivalent ability.

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. 6 credits

*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

(Four of the following:)

CNE 401	Greek History to the Peloponnesian War	3 credits
CNE 402	Hellenistic History	3 credits
CNE 403	The Roman Republic	3 credits
CNE 404	The Roman Empire	3 credits
CNE 418	Great Empires of the Near East	3 credits
CNE 419	Ancient Egypt: History, Society and Culture	3 credits

(Two additional courses chosen from the list below and the courses not taken above:)

CNE 316	Women in Ancient Greece and Hellenistic Egypt	3 credits
CNE 317	Women in Ancient Rome and Roman 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 351	Warfare in the Classical World	3 credits
CNE 354	Greek Art and Archaeology	3 credits
CNE 357	Ancient Near Eastern Art and Archaeology	3 credits
CNE 358	An Introduction to Roman Law	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 in Antiquity	3 credits
CNE 524	History of Ancient Israel	3 credits
CNE 526	Archaeology of Roman Palestine	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

(All of the following:)

Eighteen credits of 300-, 400- or 500-level CNE courses.	18 credits
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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 Arabic, Hebrew or Greek courses. 6 credits

* No more than six hours in LAT 493 will be accepted toward the minor.

Certificate Programs in University College

This department does not offer a certificate program to students in University College.

For all ARA courses please refer to page 299; for CNE courses, page 327; For GRK courses, page 377; For HEB courses, page 381; For all LAT courses, page 405.

COMPUTER SCIENCE, See Department of Journalism, Media and Computing, page 160.

COMMUNICATION STUDIES

Chair: Erika Kirby

Department Office: Hitchcock Communication Arts Building, Room 307

Professors: M. Danielson, E. Kirby;

Associate Professors: M. Birkholt, M. C. McBride, D. Pawlowski, S. Shuler;

Assistant Professors: K. Hatfield, J. Leighter, S. Senda-Cook.

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 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 Credits

(All of the following:)

COM 200	Communication Practices	3 credits
COM 300	Communication Research Methods	3 credits
COM 359	Rhetoric and Public Culture	3 credits
COM 360	Organizational Communication	3 credits
COM 361	Interpersonal Communication	3 credits
COM 490	Communication and Community	3 credits
COM 496	Communication Internship & Professional Develop.	3 credits
COM 497	Senior Research in Communication Studies	3 credits

Twelve (12) elective hours in COM courses numbered 300-level and above. 12 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 in interpersonal relationships, organizations, and public culture. 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 359	Rhetoric and Public Culture	3 credits
COM 360	Organizational Communication	3 credits
COM 361	Interpersonal Communication	3 credits

Nine (9) 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.

Certificate Programs in University College

This department offers a Communication Studies certificate program to students in University College. See the description for this certificate on page 277 in the University College section of the Bulletin.

For all COM courses, please refer to page 331.

ECONOMICS

Chair: John Wingender

Department Office: Eppley College of Business Administration 450

Professors: Goss, Murthy and Wingender; Emeritus: Nitsch;
Assistant Professors: Briggs, Deskins and Knudsen;

Department Description: The Department of Economics, supervised by the Department of Economics and Finance in the College of Business, 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. 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. Alternatively, students can receive the degree of Bachelor of Science in Business Administration with Economics as the field of concentration. Please refer to the department's listing under the College of Business for further information about this degree.

Web Contact/Information: Additional information about this department may be found at <http://www.creighton.edu/business/undergraduate/majors/economics/index.php>. 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 ECONOMICS

Specific Requirements for Admission to the Economics Major: None.

B.A., Major in Economics (Arts and Sciences students): 34 Credits

Course Requirements

BUS 229	Statistical Analysis	4 credits
ECO 203	Introductory Microeconomics	3 credits
ECO 205	Introductory Macroeconomics	3 credits
ECO 303	Intermediate Microeconomics	3 credits
ECO 305	Intermediate Macroeconomics	3 credits
ECO 508	Development of Political Economy	3 credits
	Fifteen hours of upper division courses in economics.	15 credits

Economics 203 and 205 should be taken before their junior year. Economics 303 and 305 should be taken in their junior year.

ECONOMICS MINOR

Program Description: The Economics minor offers the student the opportunity to achieve a basic understanding of the economical fundamentals at work in actions by individuals, firms, and governments. Students will examine resource allocation, income distribution, production, employment, and prices in a market economy.

Contact: Chair, Department of Economics and Finance

(All of the following:)

ECO 203	Introductory Microeconomics	3 credits
ECO 205	Introductory Macroeconomics	3 credits
ECO 303	Intermediate Microeconomics	3 credits
ECO 305	Intermediate Macroeconomics	3 credits
	Six credits of 300 and above ECO courses.	6 credits

For all ECO courses, please refer to page 342.

EDUCATION AND COUNSELOR EDUCATION

Chair: Debra L. Ponec

Associate Chair: Thomas A. Simonds, S.J.

Director of Secondary Education: Lynne E. Houtz

Director of Elementary Education: Lynn E. Olson

Director of Counselor Education: Timothy Dickel

Director of Educational Leadership: Barbara Brock

Coordinator of Special Education: Beverly Doyle

Department Office: Hitchcock Center for Communication Arts, Room 106

Professors: B. Brock, T. Cook, T. Dickel, L. Houtz; Professor Emeritus: E. O'Connor;

Associate Professors: B. Doyle, S. Ishii-Jordan, D. Ponec, J. Smith;

Assistant Professors: P. Durow, L. Olson, T. Simonds, 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) and secondary education (co-major); four graduate programs: M.Ed. (majors: elementary, secondary); M.S. in educational leadership (elementary or secondary), school counseling (elementary or secondary), and special populations; and undergraduate/graduate endorsements in ESL and special education. Students in the Magis Catholic Teacher Corps are enrolled in one of the graduate programs. Many courses include field experience at an elementary or secondary school, and students must arrange their own transportation. Prior to any education program coursework or 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. Prior to the first field experience and again prior to student teaching, the student must have a satisfactory background check through the Education Department.

The Department of Education is accredited by the National Council for Accreditation of Teacher Education (NCATE) and approved by the State of Nebraska.

Web Contact/Information: Additional information about this department may be found at <http://www.creighton.edu/ccas/education>. 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 208, and EDU 210, and complete department application procedures, including letters of recommendation and a satisfactory background check through the Education Department. In addition, an interview, and portfolio review may be requested by the Selection and Retention Committee.

B. S., Major in Elementary Education (P-6): 50-61 Credits

Course Requirements

(All of the following:)

EDU 103	American Education and the Interactive Process	3 credits
EDU 208	Understanding & Serving Diverse Populations in Education	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 500	Remedial Reading	3 credits
EDU 565	Methods of Teaching Language Arts in Elem. School	3 credits
EDU 566	Methods of Teaching of Elementary Reading	3 credits
EDU 567	Methods of Teaching Social Studies in Elem. School	3 credits
EDU 568	Methods of Teaching Mathematics in Elem. School	3 credits
EDU 569	Methods of Teaching Science in Elementary School	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 591*	Student Teaching	3-14 credits
EDU 593*	Student Teaching Seminar	1 credit
EDU 131	Literature for Children	3 credits
Or		
EDU 587	Methods of Teaching Religion in Elementary School	3 credits

* See Student Teaching on page 126.

In order to obtain Nebraska Certification in Elementary Education, a student must complete a minimum of 30 credit hours in the following content areas, with at least six credits in each area:

- Communication, including literature, composition and speech
- Mathematics
- Science
- Social Science

By completing the Creighton Core Curriculum, the requirements for the Elementary Education major, and one additional mathematics course, a student will have met all of those requirements.

Special Education for Students with Mild/Moderate Disabilities P-6 Specialization: 21-32 Credits

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/ 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	3-14 credits

* See Student Teaching on page 126.

English as a Second Language (P-12) Teaching Endorsement Specialization: 15 Credits

Students who are enrolled in the elementary or secondary teaching certification programs, or already 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 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
EDU 544	Framework of World Languages and Cultures	3 credits
ENG 421	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

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, 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 208	Understanding & Serving Diverse Populations in Education (concurrent with EDU 210)	3 credits
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 Middle and Secondary Schools	3 credits
EDU 575	Action Research in Your Content Area	3 credits
EDU 583	Management Practices for Classroom Teachers	3 credits
EDU 591*	Student Teaching	3-14 credits
EDU 593*	Student Teaching Seminar	1 credit

* See Student Teaching on page 126.

Special Education for Students with the Mild/Moderate Disabilities 7-12 Specialization: 24-35 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	3-14 credits

* See Student Teaching below.

English as a Second Language (P-12) Teaching Endorsement Specialization: 15 Credits

Students who are enrolled in the elementary or secondary teaching certification programs, or already 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 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
EDU 544	Framework of World Languages and Cultures	3 credits
ENG 421	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/Clinical Experience***

Student teaching is a one-semester (16 weeks), full-day teaching experience. All professional education coursework and the designated minimum 100 hours of pre-student teaching field experiences must be completed prior to the Student Teaching/Clinical Experience semester. All students must participate in the Student Teaching Seminar. Students must reserve the entire teaching day for participation in a P-12 school's student teaching experience. Students follow the calendar of the P-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

This department does not offer a certificate program in Education to students in University College.

For all EDU courses, please refer to page 343.

ENCUENTRO DOMINICANO

Academic Director: Mary Bean

Campus Coordinators: Eugene Selk, Department of Philosophy;
Jill Brown, Department of Philosophy

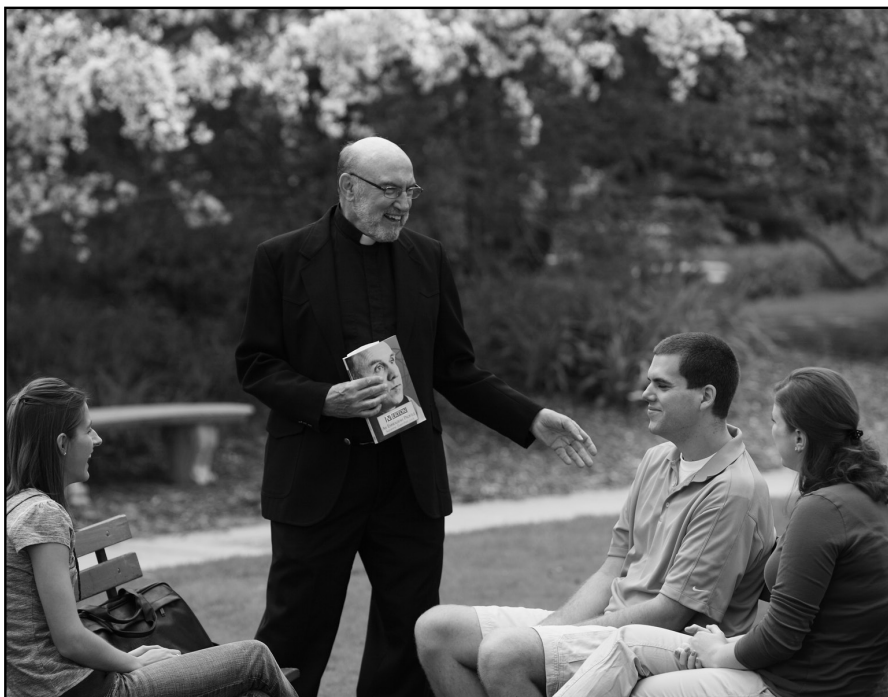
Program Description: *Encuentro Dominicano* is a semester-long academic living-learning program that integrates community-based learning with traditional coursework in a cross-cultural immersion context. Encuentro Dominicano reflects the Mission of the University, especially its call for participation 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.

The program is housed in 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 15 to 18 credits in coursework, including: EDP 361, a 6-credit course in the history, sociology, politics, economics and faith traditions of the Dominican Republic and the Caribbean and six credits in Spanish at a level commensurate with their prior language training. EDP 361 employs service-learning pedagogy, the possibility for internships and cultural immersion 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 may also enroll in additional courses offered by Creighton faculty visiting the program.

Web Contact/Information: Additional information about this program may be found at <http://www2.creighton.edu/encuentro/>.

For the EDP 361 course description, please refer to page 352.



ENERGY TECHNOLOGY PROGRAM

Program Director: Michael Cherney

Program Office: Pittman 128

Program Description: The Energy Technology Program addresses energy issues from an interdisciplinary perspective. The program emphasizes the use of projects and case studies to develop problem-solving skills. The Bachelor of Arts with a major in Sustainable Energy is intended for students who wish to pursue a career in sustainability, energy policy or law. The Bachelor of Science with a major in Energy Science serves students interested in a science, math and/or engineering career.

Web Contact/Information: Additional information about this program may be found at <http://energy.creighton.edu/>.

PROGRAMS IN ENERGY TECHNOLOGY PROGRAM

Specific Requirements for Admission to Energy Technology majors: MTH 245 or equivalent.

B. A., Major in Sustainable Energy: 74 credits (28 credits satisfy specific Core Requirements)

(All of the following:)

Foundational Courses

ERG 211	Design and Rapid Prototyping Lab I	1 credit
ENG 151	Design and Rapid Prototyping Lab I	1 credit
COM 153	Design and Rapid Prototyping Lab I	1 credit
ERG 212	Design and Rapid Prototyping Lab II	1 credit
JRM 202	Design and Rapid Prototyping Lab II	2 credits
ERG 311	Design and Rapid Prototyping Lab III	1 credit
ENG 152	Design and Rapid Prototyping Lab III	1 credit
COM 154	Design and Rapid Prototyping Lab III	1 credit
ERG 312	Design and Rapid Prototyping Lab IV	1 credit
ENG 153	Design and Rapid Prototyping Lab IV	1 credit
COM 155	Design and Rapid Prototyping Lab IV	1 credit
ERG 241	Introduction to Energy Transfer	3 credits
ERG 251	History and Technology in Modern World	2 credits
HIS 110	History and Technology in Modern World	3 credits
ERG 301	Modeling Electrical Load and Yield	3 credits
ERG 321	Introduction to Solar Energy	3 credits
ERG 351	Energy Policy	3 credits
ERG 481	Senior Project in Energy Studies I	3 credits
ERG 482	Senior Project in Energy Studies II	3 credits
THL 101	Theology, Cosmology, and the Environment	3 credits
THL 336	Divine Providence, Catholic Social Teaching and Problem of Climate Change	3 credits
PHL 255	Ethics, Energy, and Environment	3 credits

Sustainable Energy

ERG 361	Internship	3 credits
ERG 551	Grants and Funding for Sustainable Technology	3 credits
PHY 157	Energy in Modern Society	3 credits

(One of the following:)

ANT 112	Energy, Culture, and Sustainability	3 credits
ANT 355	Environment and Society	3 credits

Electives

(Eighteen credits from the following):*

A minimum of 18 credit hours chosen from an approved list of courses in the disciplines of ART, AMS, ANT, BUS, COM, ECO, ERG, ENG, EVS, HRS, JRM, PHY, PLS, SOC, THL.	18 credits
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*For complete list of electives, please visit <http://energy.creighton.edu>

B. S., Major in Energy Science: 75 credits (25 credits satisfy specific Core Requirements)

(All of the following):

Foundational Courses

ERG 211	Design and Rapid Prototyping Lab I	1 credit
ENG 151	Design and Rapid Prototyping Lab I	1 credit
COM 153	Design and Rapid Prototyping Lab I	1 credit
ERG 212	Design and Rapid Prototyping Lab II	1 credit
JRM 202	Design and Rapid Prototyping Lab II	2 credits
ERG 311	Design and Rapid Prototyping Lab III	1 credit
ENG 152	Design and Rapid Prototyping Lab III	1 credit
COM 154	Design and Rapid Prototyping Lab III	1 credit
ERG 312	Design and Rapid Prototyping Lab IV	1 credit
ENG 153	Design and Rapid Prototyping Lab IV	1 credit
COM 155	Design and Rapid Prototyping Lab IV	1 credit
ERG 241	Introduction to Energy Transfer	3 credits
ERG 251	History and Technology in Modern World	2 credits
HIS 110	History and Technology in Modern World	3 credits
ERG 301	Modeling Electrical Load and Yield	3 credits
ERG 321	Introduction to Solar Energy	3 credits
ERG 351	Energy Policy	3 credits
ERG 481	Senior Project in Energy Studies I	3 credits
ERG 482	Senior Project in Energy Studies II	3 credits
THL 101	Theology, Cosmology, and the Environment	3 credits
THL 336	Divine Providence, Catholic Social Teaching and Problem of Climate Change	3 credits
PHL 255	Ethics, Energy, and Environment	3 credits

Energy Science

ERG 521	Introduction to Photovoltaic Materials	3 credits
MTH 249	Modeling the Physical World I	3 credits
PHY 221	Modeling the Physical World I	3 credits
MTH 349	Modeling the Physical World II	3 credits
PHY 222	Modeling the Physical World II	3 credits

Electives

(Sixteen credits from the following):*

A minimum of 16 credit hours chosen from an approved list of courses in the disciplines: ATS, CHM, CSC, ENG, ERG, JRM, HRS, MTH, PHY. 16 credits

*Twelve credits of pre-approved engineering work can be used towards the elective requirement. For complete list of electives, please visit <http://energy.creighton.edu>

SUSTAINABLE ENERGY MINOR

Program Description: The Sustainable Energy minor offers students an introduction to basic energy principles and design methods. Courses are project and case study based.

Contact: Director, Energy Technology Program

(At least one of the following:)

ERG 211/ENG 151/COM 153	Design and Rapid Prototyping Lab I	3 credits
ERG 212/JRM 202	Design and Rapid Prototyping Lab II	3 credits

(At least one of the following:)

PHY 157	Energy in Modern Society	3 credits
PHY 212	General Physics II	4 credits
PHY 221/MTH 249	Modeling of the Physics World I	6 credits

(At least one of the following:)

ERG 241	Introduction to Energy Transfer	3 credits
ERG 321	Introduction to Solar Energy	3 credits
ERG 351	Energy Policy	3 credits

(Additional credits to a total of 18:)

ANT 112	Culture, Energy, and Sustainability	3 credits
COM 154	Design and Rapid Prototyping Lab III	1 credit
COM 155	Design and Rapid Prototyping Lab IV	1 credit
ERG 211	Design and Rapid Prototyping Lab I	1 credit
ENG 151	Design and Rapid Prototyping Lab I	1 credit
COM 153	Design and Rapid Prototyping Lab I	1 credit
ERG 212	Design and Rapid Prototyping Lab II	1 credit
JRM 202	Design and Rapid Prototyping Lab II	2 credits
ERG 311	Design and Rapid Prototyping Lab III	1 credit
ENG 152	Design and Rapid Prototyping Lab III	1 credit
ERG 312	Design and Rapid Prototyping Lab IV	1 credit
ENG 153	Design and Rapid Prototyping Lab IV	1 credit
ERG 251	History and Technology in Modern World	2 credits
ERG 131	Installation Photovoltaic Systems	3 credits
ERG 132	Convection and Passive Solar Energy Systems	3 credits
ERG 241	Introduction to Energy Transfer	3 credits
ERG 301	Modeling Electrical Load and Yield	3 credits
ERG 321	Introduction to Solar Energy	3 credits
ERG 351	Energy Policy	3 credits
ERG 361	Internship	3 credits
ERG 493	Directed Independent Readings	3 credits
ERG 495	Directed Independent Study	3 credits
ERG 497	Directed Independent Research	3 credits
ERG 521	Introduction to Photovoltaic Materials	3 credits
ERG 551	Grants and Funding for Sustainable Technology	3 credits
ERG 595	Special Topics in Energy Studies	3 credits
ERG 597	Computer Models for Short Term Weather Forecasting	3 credits
PHY 157	Energy in Modern Society	3 credits
PHY 212	General Physics II	4 credits
PHY 221	Modeling of the Physics World I	3 credits
MTH 249	Modeling of the Physics World I	3 credits
PHL 255	Ethics, Energy, and Environment	3 credits
PHY 591	Seminar in Engineering	1-3 credits
THL 101	Theology, Cosmology, and the Environment	3 credits
THL 336	Divine Providence, Catholic Social Teaching and Problem of Climate Change	3 credits

For all ERG courses, please refer to page 352.

ENGLISH

Chair: Robert Whipple, Jr.
Department Office: Creighton Hall, 134A

Professors: N. Chiwengo, B. Keegan, B. Spencer, R. Whipple; G. Zacharias; Professor Emeriti: R. Garcia, J. Karabatsos;
Associate Professors: S. Aizenberg, R. Dornsife, F. Fajardo-Acosta, M.H.Stefaniak;
Associate Professor Emeriti: N. Fogarty, T. Kuhlman, C. Stein, M. Sundermeier;
Assistant Professors: R. Churchill, L. Cooper, N. Ha, D. Mullins, 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 372	Western Literature of the United States	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 450	Contemporary British Literature	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 440	Introduction to Green Cultural Studies	3 credits
ENG 476	Writing and Working for Justice	3 credits
ENG 489	American Prisons	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 421	History of the English Language	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 476	Writing and Working for Justice	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 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 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 372	Western Literature of the United States	3 credits
ENG 393	African-American Literature	3 credits
ENG 412	Studies in Major Authors	3 credits
ENG 434	Irish American Literature	3 credits
ENG 482	Special Topics in 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 (when a British author)	3 credits
ENG 481	Special Topics in British Literature	3 credits

Three credits of British Literature (as approved by Advisor/Chair) 3 credits

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 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 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 251	Advanced Composition	3 credits
ENG 314	Explorations of the Essay	3 credits
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
ENG 472	Alternative Discourse in the Academy	3 credits

Six additional credits from ENG courses numbered 300 or above 6 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

FILM STUDIES

Program Description: Film Studies is an interdisciplinary 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
THR 428	Film and the Fine Arts	3 credits
JRM 325	Digital Video	3 credits
FRN 572	French Cinema	3 credits
GER 572	Reading German Films	3 credits
MUS 391	Film Music	3 credits
SPN 481	Acting in Spanish	3 credits
SPN 571	Latin American Film	3 credits
PHL 434	Philosophy of East Asian Literature and Film	3 credits
SPN 570	Contemporary Peninsular Film	3 credits

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 a *Creative Writing Certificate* program to students in University College. See the descriptions for these certificates on page 271-275 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 448

Professors: T. Burk, C. Harper, J. Platz, J. Schalles, W. Stephens, J. Zehnder;

Professor Emeritus: A. Douglas;

Associate Professors: J. Ault, A. Cullum, B. Dilly, G. Michels, G. Ramsden, J. Schrage, M. Vinton;

Assistant Professors: M. Anderson, C. Fassbinder-Orth, S. Senda-Cook, J. Leichter, M. Taylor, T. Wagner.

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 three distinct tracks: (1) Global Environmental Systems which explores ecological and climatological aspects of the integrated earth system, (2) Organismal/Population Ecology which emphasizes biological aspects of the environment and, (3) 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 355	Environment and Society	3 credits
EVS 390	Environmental Science	3 credits
EVS 491	Senior Seminar	2 credits
EVS 533	Physical Climatology and Climate Change	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 385	The Ecology, Geography and Health of Lakes	4 credits
EVS 435	Coastal and Estuarine Ecology	4 credits
EVS 440	Field Biology of the Desert Southwest	4 credits
EVS 443	Environmental Geology	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 544	Hydrology	3 credits
EVS 552	Boundary Layer Meteorology	3 credits
EVS 553	Tropical Meteorology	3 credits
EVS 555	Meteorological Remote Sensing	3 credits

EVS 556	Introduction to Physical Oceanography	3 credits
EVS 566	Climate Theory	3 credits
EVS 573	Cloud Physics and Dynamics	3 credits

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	Coastal and Estuarine Ecology	4 credits
EVS 440	Field Biology of the Desert Southwest	4 credits
EVS 443	Environmental Geology	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 539	Ecology of Zoonotic Diseases	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 580	Current Topics in Ecology	3 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 353	Environmental Economics	3 credits
EVS 354	Environmental Ethics	3 credits
EVS 355	Environment and Society	3 credits
EVS 454	Environmental Philosophy	3 credits
EVS 455	Food, Society And Environment	3 credits
EVS 470	Introduction to Geographic Information Systems	4 credits
EVS 424	Sustainability and Rural America	3 credits

Group B:

EVS 385	The Ecology, Geography and Health of Lakes	4 credits
EVS 443	Environmental Geology	4 credits
EVS 481	Terrestrial Ecology	4 credits
EVS 506	Environmental Chemistry	3 credits
EVS 523	Environmental Toxicology	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 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:*)

Atmospheric Sciences

EVS 443	Environmental Geology	4 credits
EVS 533	Physical Climatology and Climate Change	3 credits
EVS 544	Hydrology	3 credits
EVS 553	Tropical Meteorology	3 credits
EVS 555	Meteorological Remote Sensing	3 credits
EVS 556	Introduction to Physical Oceanography	3 credits

Biology

EVS 335	Zoology	4 credits
EVS 341	General Botany	4 credits
EVS 385	The Ecology, Geography and Health of Lakes	3 credits
EVS 390	Environmental Science	3 credits
EVS 435	Coastal and Estuarine Ecology	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 523	Environmental Toxicology	3 credits
EVS 549	Environmental Physiology	3 credits

Other Courses

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
EVS 506	Environmental Chemistry and Natural Resources	3 credits
EVS 491	Senior Seminar	1 credit
EVS 424	Sustainability and Rural America	3 credits

*No more than two courses may be chosen from any group.

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
CHM 105	Introductory Chemistry	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 454	Environmental Philosophy	3 credits
EVS 455	Food, Society and Environment	3 credits
EVS 424	Sustainability and Rural America	3 credits

For all EVS courses, please refer to page 362.

EXERCISE SCIENCE

Chair: Thomas Baechle

Department Office: Kiewit Fitness Center, Room 225

Professors: T. Baechle, J. Eckerson;
Associate Professors: A. Bull, G. Lambert.

Department Description: The Department of Exercise Science offers a Bachelor of Science degree in Exercise Science. 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 physician assistant. 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.

Web Contact/Information: Additional information about this department may be found at <http://www.creighton.edu/ccas/exercisescience/>. 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 367.

FINE AND PERFORMING ARTS

Chair: Frederick Hanna

Coordinator of Studio Art: Amy Nelson;

Coordinator of Art History: Matthew Knox Averett;

Coordinator of Dance: Patrick Roddy;

Coordinator of Music: A. Barron Breland;

Coordinator of Theatre: William Van Deest

Department Office: Lied Education Center for the Arts, Room 101

Professor: M. Flecky, S.J.;

Associate Professors: L. Alston, R. Bosco, F. Hanna, W. Hutson, A. Klem, C. Seitz, J. Thein;

Associate Professor Emeritus: R. Aikin;

Assistant Professors: M. Averett, A. Breland, B. Hough, A. Nelson.

Department Description: The Department of Fine and Performing Arts offers courses for non-majors and B.A. and B.F.A. degrees in Studio Art, Graphic Design, and Theatre; a B.A. in Art History, Music and a B.F.A. in Musical Theatre; and minors in Art History, Studio 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 Fine and 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 STUDIO ART

Specific Requirements for Admission to the B.A., Studio Art Major: Successful completion of ART 105 and acceptable portfolio review, normally by the end of the sophomore year.

Specific Requirements for Admission to the B.F.A.: Acceptance into the B.A., Studio Art Major and acceptable portfolio review normally at the end of the junior year.

B.A., Major in Studio Art: 36 Credits

Course Requirements

(All of the following:)

ART 105	Art Fundamentals	3 credits
ARH 219	History of Western Art	3 credits
ART 271	Photography Studio I	3 credits
ART 321	Life Drawing I	3 credits
ART 331	Painting I	3 credits

(One of following:)

ART 201	Arts and Civic Engagement: Empty Bowls	3 credits
ART 211	Introductory Ceramics	3 credits

(One of following:)

ART 153	3D Foundations	3 credits
ART 154	Clay Modeling I	3 credits
ART 155	Welded Metal Sculpture I	3 credits
ART 156	Bronze Casting I	3 credits
ART 157	Stone Carving I	3 credits

(One of the following:)

ART 345	Relief Printing: Woodcut and Linoleum	3 credits
ART 347	Etching I	3 credits

Studio Art Elective

(Six credits from the following:)

ART 201	Arts and Civic Engagement: Empty Bowls	3 credits
ART 253	Sculpture II	3 credits
ART 254	Clay Modeling II	3 credits
ART 255	Welded Metal Sculpture II	3 credits
ART 256	Bronze Casting II	3 credits
ART 257	Stone Carving II	3 credits
ART 271	Photography Studio I	3 credits
ART 306	Color: Acrylic and Chalk	3 credits
ART 311	Arts and Civic Engagement: Empty Bowls	3 credits
ART 311	Intermediate Ceramics I	3 credits
ART 312	Intermediate Ceramics II	3 credits
ART 322	Life Drawing II	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 376	The Photo Diary	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 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)
HRS 348	Sources & Methods: Pictures & Words: The Visual Book	3 credits

Art History

(Six credits from the following:)

ARH 319	Art International: The Art Culture of the Global Comm.	3 credits
ARH 349	Egyptian Art and Archaeology	3 credits
ARH 350	Archaeology of Syria-Palestine	3 credits
ARH 354	Greek Art and Archaeology	3 credits
ARH 362	Early Christian Art and Archaeology	3 credits
ARH 365	Greek Art	3 credits
ARH 366	Etruscan and Roman Art	3 credits
ARH 369	Medieval Art and Architecture	3 credits
ARH 372	History of Northern Renaissance Art and Architecture	3 credits
ARH 375	History of Italian Renaissance Art and Architecture	3 credits
ARH 377	Seventeenth-Century Art and Architecture	3 credits
ARH 380	History of the Art of the Eighteenth Century	3 credits
ARH 383	History and Aesthetics of Photography	3 credits
ARH 384	History of American Architecture	3 credits
ARH 385	History of American Art and Architecture	3 credits

ARH 386	The History and Aesthetics Latin American Photo.	3 credits
ARH 387	Modern Hispanic Art History	3 credits
ARH 390	Nineteenth Century Art and Architecture	3 credits
ARH 394	Modern European Art, 1900-1945	3 credits
ARH 398	Contemporary Art	3 credits
ARH 401	History and Methods of Art History	3 credits
ARH 410	The Lives of Artists in Film	3 credits
ARH 418	Jesus Through The Ages	3 credits
ARH 430	Selected Topics in Ancient Art	3 credits
ARH 435	Women, Art and Society	3 credits
ARH 445	History of Architecture and Urbanism	3 credits
ARH 450	The City	3 credits
ARH 461	The City of Rome in Antiquity	3 credits
ARH 465	The City of Rome since Antiquity	3 credits
ARH 467	History of The Art of Spain and Her Colonies	3 credits
ARH 468	Native American Art	3 credits
ARH 475	Michelangelo and the High Renaissance	3 credits
ARH 480	Management of Arts Organizations	3 credits
ARH 489	Summer Art History Seminar	1 credit
ARH 493	Directed Independent Readings	1-3 credit(s)
ARH 497	Directed Independent Research	1-2 credit(s)
ART 380	History and Criticism of Cinema	3 credits
ART 428	Film and the Fine Arts	3 credits

B.F.A., Major in Studio Art: 54 Credits

Course Requirements

(All of the following:)

ART 105	Art Fundamentals	3 credits
ARH 219	History of Western 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 499	Senior Thesis	3 credit(s)

(One of following:)

ART 201	Arts and Civic Engagement: Empty Bowls	3 credits
ART 211	Introductory Ceramics	3 credits

(One of following:)

ART 153	3D Foundations	3 credits
ART 154	Clay Modeling I	3 credits
ART 155	Welded Metal Sculpture I	3 credits
ART 156	Bronze Casting I	3 credits
ART 157	Stone Carving I	3 credits

(One of the following:)

ART 345	Relief Printing: Woodcut and Linoleum	3 credits
ART 347	Etching I	3 credits

Six additional credits, in Art History (see B.A. Major in Studio Art) 6 credits

Eighteen additional credits in studio art 200-level and above. 15 credits

Teacher Certification

Students who think they may teach Studio 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.

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: Coordinator of Studio Art, Department of Fine and Performing Arts

(All of the following:)		
ART 105	Art Fundamentals	3 credits
(One of the following:)		
ART 153	3D Foundations	3 credits
ART 154	Clay Modeling I	3 credits
ART 155	Welded Metal Sculpture I	3 credits
ART 156	Bronze Casting I	3 credits
ART 157	Stone Carving I	3 credits
(One of following:)		
ART 201	Arts and Civic Engagement: Empty Bowls	3 credits
ART 211	Introductory Ceramics	3 credits
Three credits of Art History (ARH 200-level and above)		3 credits
Nine credits of Studio Art (ART 200-level and above)		9 credits

For all ART courses, please refer to page 320.

PROGRAMS IN ART HISTORY

Specific Requirements for Admission to the Art History Major: Successful completion of ARH 219 and one additional Art History course.

B. A., Major in Art History: 30 Credits

Course Requirements

(All of the following:)		
ARH 219	History of Western Art	3 credits
ARH 319	Art International: The Art Culture of the Global Comm.	3 credits
Three credits of Studio Art		3 credits
(Three credits from three of the following areas:)		
<i>Non-Western</i>		
ARH 387	Modern Hispanic Art History	3 credits
ARH 414	The Jesuits and the Arts	3 credits
ARH 467	History of The Art of Spain and Her Colonies	3 credits
ARH 468	Native American Art	3 credits
<i>Ancient</i>		
ARH 349	Egyptian Art and Archaeology	3 credits
ARH 354	Greek Art and Archaeology	3 credits
ARH 362	Early Christian Art and Archaeology	3 credits
ARH 365	Greek Art	3 credits
ARH 366	Etruscan and Roman Art	3 credits
<i>Medieval and Early Modern</i>		
ARH 369	Medieval Art and Architecture	3 credits
ARH 372	History of Northern Renaissance Art and Architecture	3 credits
ARH 375	History of Italian Renaissance Art and Architecture	3 credits
ARH 377	Seventeenth-Century Art and Architecture	3 credits
ARH 380	History of the Art of the Eighteenth Century	3 credits
<i>Modern</i>		
ARH 385	History of American Art and Architecture	3 credits
ARH 390	Nineteenth Century Art and Architecture	3 credits
ARH 394	Modern European Art, 1900-1945	3 credits
ARH 398	Contemporary Art	3 credits

(Twelve additional credits chosen from the areas above or the following:)

ARH 301	Topics in the History of Art	3 credits
ARH 350	Archaeology of Syria-Palestine	3 credits
ARH 383	History and Aesthetics of Photography	3 credits
ARH 384	History of American Architecture	3 credits
ARH 386	The History and Aesthetics Latin American Photo.	3 credits
ARH 401	History and Methods of Art History	3 credits
ARH 410	The Lives of Artists in Film	3 credits
ARH 418	Jesus Through The Ages	3 credits
ARH 430	Selected Topics in Ancient Art	3 credits
ARH 435	Women, Art and Society	3 credits
ARH 445	History of Architecture and Urbanism	3 credits
ARH 450	The City	3 credits
ARH 461	The City of Rome in Antiquity	3 credits
ARH 465	The City of Rome since Antiquity	3 credits
ARH 475	Michelangelo and the High Renaissance	3 credits
ARH 480	Management of Arts Organizations	3 credits
ARH 481	Arts Management Internship	3 credits
ARH 489	Summer Art History Seminar	1 credit
ARH 493	Directed Independent Readings	1-3 credit(s)
ARH 497	Directed Independent Research	1-2 credit(s)
ART 499	Senior Thesis	1-3 credit(s)

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.

Contact: Coordinator of Art History, Department of Fine and Performing Arts

(All of the following:)

ARH 219	History of Western Art	3 credits
ARH 319	Art International (Non-Western Arts)	3 credits

(Twelve credits from the following:)

ARH 301	Topics in the History of Art	3 credits
ARH 349	Egyptian Art and Archaeology	3 credits
ARH 350	Archaeology of Syria-Palestine	3 credits
ARH 354	Greek Art and Archaeology	3 credits
ARH 355	Greek Art and Archaeology (travel)	3 credits
ARH 362	Early Christian Art and Archaeology	3 credits
ARH 366	Etruscan and Roman Art	3 credits
ARH 369	Medieval Art and Architecture	3 credits
ARH 372	History of Northern Renaissance Art and Architecture	3 credits
ARH 375	History of Italian Renaissance Art and Architecture	3 credits
ARH 377	Seventeenth-Century Art and Architecture	3 credits
ARH 380	History of the Art of the Eighteenth Century	3 credits
ARH 383	History and Aesthetics of Photography	3 credits
ARH 384	History of American Architecture	3 credits
ARH 385	History of American Art and Architecture	3 credits
ARH 386	The History and Aesthetics Latin American Photo.	3 credits
ARH 387	Modern Hispanic Art History	3 credits
ARH 390	Nineteenth Century Art and Architecture	3 credits
ARH 394	Modern European Art, 1900-1945	3 credits
ARH 398	Contemporary Art	3 credits
ARH 410	The Lives of Artists in Film	3 credits
ARH 418	Jesus Through The Ages	3 credits

ARH 430	Selected Topics in Ancient Art	3 credits
ARH 435	Women, Art and Society	3 credits
ARH 445	History of Architecture and Urbanism	3 credits
ARH 450	The City	3 credits
ARH 461	The City of Rome in Antiquity	3 credits
ARH 465	The City of Rome since Antiquity	3 credits
ARH 467	History of The Art of Spain and Her Colonies	3 credits
ARH 468	Native American Art	3 credits
ARH 475	Michelangelo and the High Renaissance	3 credits
ARH 489	Summer Art History Seminar	1 credit

Teacher Certification

Students who think they may teach Art History 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 History to students in University College.

For all ARH courses, please refer to page 324.

PROGRAM IN DANCE

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	Dance Studies I	3 credits
DAN 111	Dance Studies II	3 credits
DAN 112	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.

For all DAN courses, please refer to page 339.

PROGRAMS IN MUSIC

Special Requirement for Admission to the Major in Music: Audition before the full-time music faculty before the first semester of enrollment in applied lessons, scheduled through the Coordinator of Music.

Special Requirement for Admission to the Major in Musical Theatre: Audition through the Dance, Music and Theater faculty. Depending on the outcome of the audition, students may have to take DAN 101 and THR 131.

B.A., Major in Music: 46 Credits

Course requirements

(All of the following:)

MUS 100	Music Theory I	2 credits
MUS 101	Music Theory II	2 credits
MUS 200	Music Theory III	2 credits
MUS 221	Ear Training and Sight Singing I	1 credit
MUS 222	Ear Training and Sight Singing II	1 credit
MUS 300	Music History: Baroque	3 credits
MUS 301	Music History: Classical	3 credits
MUS 321	Ear Training and Sight Singing III	1 credit
MUS 400	Music History: 19 th and 20 th Centuries	3 credits
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 157	Applied Music I-Piano	1 credit
MUS 257	Applied Music II-Piano	1 credit

Applied Music: Voice

(Four credits from the following*):

MUS 161	Applied Music I-Voice	1 credit
MUS 271	Voice Class	3 credits
MUS 261	Applied Music II-Voice	1 credit

Applied Music: Elective Instrumental Area or Voice Area

Two credits of Applied Music I (MUS 137-161)	2 credits
Two credits of Applied Music II (MUS 237-261)	2 credits
Two credits of Applied Music III (MUS 337-361)	2 credits
Two credits of Applied Music IV (MUS 437-461)	2 credits

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 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 320	University Orchestra II	1 credit

* These credits may be waived if competency is established by examination.

B.F.A., Major in Musical Theatre: 53 Credits

Course requirements

(All of the following:)

Musical Theatre Core

MUS 363	Musical Theatre Song Repertoire	3 credits
MUS 364	History of Musical Theatre	3 credits
	Three additional credits of Musical Theatre Performance	3 credits

Music

MUS 130	Foundations of Music	3 credits
MUS 221	Ear Training and Sight Singing I	1 credit
MUS 222	Ear Training And Sight Singing II	1 credit
MUS 157	Applied Music-Piano	1 credit
MUS 161	Applied Music-Voice	1 credit
MUS 313	Chamber Choir	2 credits
MUS 361	Applied Music III-Voice	2 credits
MUS 461	Applied Music IV-Voice	2 credits

Theatre

THR 330	Acting II	3 credits
THR 335	Audition Technique	3 credits
THR 341	Play Direction and Script Analysis I	3 credits
THR 391	Production Practicum	3 credits
THR 466	World Theatre History	3 credits

Dance

DAN 310	Advanced I Dance Studies I	3-4 credits
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Ballet, Jazz and Tap

(Nine credits from the following:)

DAN 110	Dance Studies I	3 credits
DAN 111	Dance Studies II	3 credits
DAN 112	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	3-4 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

Electives

(Three credits from the following:)

DAN 121	Beginning Modern Dance	1 credit
DAN 221	Intermediate Modern Dance	1 credit
DAN 242	Dance Composition and Theory I	2 credits
DAN 321	Advanced I Modern Dance	1 credit
DAN 342	Individual Choreographic Project	1 credit
DAN 383	Summer Session Workshop in Advanced Dance I	1-3 credits
DAN 398	Performance – Third Year	1 credit
DAN 483	Summer Session Workshop in Advanced Dance II	1-3 credits
DAN 498	Performance – Fourth Year	1 credit
MUS 235	Applied Music I	1 credit
MUS 313	Chamber Choir	1 credit
MUS 495	Independent Research Project	1-3 credits
MUS 498	Senior Recital	1 credit
THR 331	Acting Styles	3 credits
THR 432	Actor's Lab	3 credits
THR 441	Play Direction and Script Analysis II	3 credits

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 100	Music Theory I	2 credits
MUS 221	Ear Training and Sight Singing I	1 credit
(One of the following):*		
MUS 300	Music History: Baroque	3 credits
MUS 301	Music History: Classical	3 credits
MUS 400	Music History: 19 th and 20 th Centuries	3 credits
(Three credits from the following):		
MUS 135	Beginning Class Piano	1 credits
MUS 157	Applied Music I-Piano (may be repeated)	1 credit
MUS 257	Applied Music II-Piano	1 credit
(Three credits from the following):		
MUS 271	Voice Class	3 credits
MUS 161	Applied Music I- Voice (may be repeated)	1 credit
MUS 261	Applied Music II-Voice	1 credit
<i>Performance Ensembles</i>		
(Three 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 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 320	University Orchestra II	1 credit
(Three credits from the following):		
MUS 137-161	Applied Music I	1 credit
MUS 208-220	Performance Ensemble course	1 credit
MUS 237-261	Applied Music II	1 credit
MUS 337-361	Applied Music III	1 credit
MUS 300	Music History: Baroque	3 credits
MUS 301	Music History: Classical	3 credits
MUS 308-320	Performance Ensemble course	1 credit
MUS 400	Music History: 19 th and 20 th Centuries	3 credits
MUS 101	Music Theory II	2 credits
<i>And</i>		
MUS 222	Ear Train & Sight Singing II	1 credit

*Students must complete a successful audition before the music faculty before the first semester they are enrolled in applied lessons.

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 413.

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: 40 Credits

Course Requirements

(All of the following:)

THR 131	Acting I	3 credits
THR 153	Stagecraft I	3 credits
THR 154	Costume Construction	3 credits
THR 215	Makeup Design	3 credits
THR 223	Basic Television Studio Production	3 credits
THR 341	Play Direction and Script Analysis I	3 credits
THR 355	Lighting I	3 credits
THR 491	Production for Majors	4 credits

(Six credits from the following:)

THR 461	American Theatre History	3 credits
THR 465	Theatre History I (5 th 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 six credits from the FPA Department and three 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.

(All of the following:)

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 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 th Century, B.C.-1700)	3 credits
THR 466	Theatre History II (1700-Present)	3 credits

Requisite Courses: Nine credits with the approval of the major advisor, including six credits from the FPA Department and three credits of 300-level or above from other departments.

Performance Track

(All of the following:)

THR 154	Costume Construction	3 credits
THR 335	Audition Technique	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 th 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

Six additional theatre credits at the 200-400 level. 6 credits

Technical Track

(All of the following:)

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 (5th 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

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

(One of the following:)

THR 341	Play Direction and Script Analysis I	3 credits
THR 342	The Art of Television Directing	3 credits

(One of the following:)

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

(One of the following:)

THR 458	Performance, Directing and Production Lab	3 credits
THR 461	American Theatre History	3 credits
THR 465	Theatre History I: 5 th Century BC – 1700	3 credits
THR 466	World Theatre History II: 1700 – Present	3 credits

Three additional credits in theatre chosen with Theatre Coordinator 3 credits

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 472.

GRAPHIC DESIGN, See Department of Journalism, Media and Computing, page 160.

HEALTH ADMINISTRATION AND POLICY

Program Director: Judith Lee Kissell
Program Office: Hixson-Lied G09

Program Description: The Health Administration and Policy Program is an interdisciplinary program designed to provide the undergraduate student with a broad understanding of healthcare management and an awareness of the key issues facing the healthcare world. This program is designed to provide students with the opportunity to build a solid understanding of healthcare institutions, management processes, public policy, social and ethical issues.

Web Contact/Information: Additional information about this program may be found at <http://www.creighton.edu/ccas/healthadminpolicy/>. 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: Successful completion of HAP 200 with a grade of C or better and sophomore standing.

B. S., Major in Health Administration and Policy: 45 Credits

(All of the following:)

Health Issues Core

HAP 200	Introduction to Healthcare Administration	3 credits
HAP 310	Health Finance and Budgeting	3 credits
HAP 315	Healthcare, Society and Culture	3 credits
HAP 334	Public Policy and Healthcare	3 credits
HAP 515	Law and Health Systems	3 credits

Methodology and Quantitative Skills

HAP 312	Quantitative Methods in the Social Sciences	3 credits
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Internship

HAP 485	Internship in Health Administration and Policy	3 credits
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Management Core

ACC 201	Introduction to Financial Accounting	3 credits
HAP 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

Ethics

(One of the following:)

HAP 457	Biomedical Ethics	3 credits
HAP 456	Public Health Ethics	3 credits

(Two of the following covering distinctly different management topics*:)

BIA 253	Management and Information Systems	3 credits
BIO 401	Biostatistics	4 credits
COM 360	Organizational Communication	3 credits
EDP 361	Social Justice in the Dominican Republic**	6 credits
HAP 314	Statistics for the Social Sciences	4 credits
HAP 317	Global Health Issues	3 credits
HAP 520	Statistical Methods for Public Administration	3 credits
HAP 350	The Essentials of Public Health	3 credits
HAP 355	Essentials of Epidemiology	3 credits
MGT 351	Personnel/Human Resources Management	3 credits
MKT 319	Principles of Marketing	3 credits
MTH 363	Elementary Probability and Statistics	3 credits
MTH 513	Probability And Statistics in the Health Sciences	3 credits

Six additional credits between HAP 400 and HAP 440. 6 credits

*or other courses with the consent of the Program Director.

**taught in the Dominican Republic

PUBLIC HEALTH MINOR

Program Description: The minor in Public health acquaints students with the science of preventing disease, prolonging life and promoting healthy life styles both in this country and abroad. Public health includes the study of the causes and distribution of disease frequency in human populations and interventions aimed at minimizing risk factors and preventing disease at the population level. This discipline studies community efforts for improving the environment, containing community infections, addressing the social determinants of health and developing the social machinery to maintaining the health of a population.

Contact: Director, Health Administration and Policy Program

(All of the following:)

HAP 350	The Essentials of Public Health	3 credits
HAP 355	Essentials of Epidemiology	3 credits

(One of the following:)

HAP 456	Public Health Ethics	3 credits
HAP 457	Biomedical Ethics	3 credits

(One of the following:)

HAP 420	Seminar in Health Policy	3 credits
HAP 317	Global Health Issues	3 credits
EDP 361	Social Justice in the Dominican Republic**	6 credits
PLS 319	Politics of the Developing Areas	3 credits
PLS 435	Global Poverty and Development	3 credits

(One of the following:)

HAP 312	Quantitative Methods in the Social Sciences	3 credits
HAP 314	Statistics for the Social Sciences	4 credits
HAP 315	Healthcare, Society and Culture	3 credits
HAP 420	Seminar in Health Policy	3 credits
HAP 433	Public Policy Analysis	3 credits
ANT 307	Demography: World Population Issues	3 credits
ANT 340	Native American Cultures and Health	3 credits
ANT 363	Medical Anthropology	3 credits
ANT 383	Cultural Epidemiology: Global Perspectives	3 credits
SOC 355	Environment and Society: Sociological Perspectives	3 credits
SOC 455	Food, Society and Environment	3 credits
PLS 333	Environmental Politics and Policy	3 credits
PLS 433	Public Policy Analysis	3 credits

(One of the following:)

BIO 149	Human Biology	3 credits
BIO 351	Microbiology	4 credits
BIO 390	Environmental Science	3 credits
BIO 401	Biostatistics	4 credits
BIO 432	Immunology	3 credits
BIO 539	Ecology of Zoonotic Diseases	3 credits
BIO 581	Evolution	4 credits
HAP 331	Managing the Public and Non-Profit Sectors	3 credits
HAP 334	Public Policy and Health Care	3 credits
MTH 363	Elementary Probability and Statistics	3 credits
MTH 513	Probability and Statistics in the Health Sciences	3 credits
SWK 261	Introduction to Social Welfare	3 credits

**taught in the Dominican Republic

Note: HAP majors may minor in Public Health as long as they take at least two courses listed above that are not part of their HAP major requirement.

HEALTH ADMINISTRATION AND POLICY MINOR

Program Description: The minor in Health Administration and Policy is a program of interdisciplinary education structured to help students understand administration and policy issues as they relate to healthcare institutions. The minor is helpful to students who seek to understand the healthcare system either for personal use or as an adjunct to a career in one of the healthcare professions.

Contact: Director, Health Administration and Policy Program

(All of the following:)

HAP 200 Introduction to Healthcare Administration 3 credits

(One of the following:)

HAP 315 Healthcare, Society and Culture 3 credits

HAP 411 Seminar in Health Care Administration 3 credits

HAP 413 Service and HR in Healthcare 3 credits

(One of the following:)

HAP 334 Public Policy and Healthcare 3 credits

NUR 354 Power, Politics, and Policy in Health Care 3 credits

Three additional courses chosen from HAP courses numbered 300 or above. 9 credits

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 272 in the University College section of the Bulletin.

For all HAP courses, please refer to page 380.



HISTORY

Chair: Tracy N. Leavelle

Department Office: Creighton Hall, Room 330

Associate Professors: J. Calvert, E. Dugan, E. Elliot-Meisel, H. Fryer, T. Leavelle, R. Super;
Assistant Professors: S. Eastman, B. McEwen, M. Hawkins.

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 below) 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:

(Fifteen credits from the following:)

HIS 347	The Arab-Israeli Conflict: Struggle for Holy Land	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 395	Selected Topics*	3 credits
HIS 417	20th Century Europe	3 credits
HIS 484	Nationalist Movements in Colonial Africa	3 credits
HIS 489	Southern Africa: The Politics of Race	3 credits
HIS 493	Directed Independent Readings*	1-3 credits
HIS 497	Directed Independent Research*	1-3 credits
HIS 547	Postwar Europe	3 credits

HIS 548	Russia's Revolutions	3 credits
HIS 551	The Rise and Fall of Europe's Empires	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
HIS 595	Special Problems in the History of INR*	3 credits

*As pre-approved by Department Chair.

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 321	Tudor and Stuart England	3 credits
HIS 395	Selected Topics*	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	The Renaissance	3 credits
HIS 412	The Reformation	3 credits
HIS 413	Absolutism, Reason, and Revolt, 1648-1789	3 credits
HIS 415	19th Century Europe	3 credits
HIS 417	20th Century Europe	3 credits
HIS 421	The Vikings	3 credits
HIS 493	Directed Independent Readings*	1-3 credits
HIS 497	Directed Independent Research*	1-3 credits
HIS 535	Modern Russian Cultural History	3 credits
HIS 544	History of Ireland	3 credits
HIS 545	Modern France	3 credits
HIS 546	Modern Germany	3 credits
HIS 547	Postwar Europe	3 credits
HIS 548	Russia's Revolutions	3 credits
HIS 551	The Rise and Fall of Europe's Empires	3 credits
HIS 595	Special Problems in the History of INR*	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 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 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 421	Civilization and Culture of Spain	3 credits
SPN 427	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):

ARH 369	Medieval Art and Architecture	3 credits
ARH 375	History of Italian Renaissance Art and Architecture	3 credits
ARH 377	Seventeenth-Century Art and Architecture	3 credits
ARH 394	Modern European Art, 1900-1945	3 credits

One additional course chosen from the lists above.

*As pre-approved by Department Chair.

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 three credits in the non-Western World, 100-level or above.

*As pre-approved by Department Chair.

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 482.

HONORS PROGRAM

Interim Program Director: Jeffrey P. Hause;

Interim Assistant Director: Erika Moreno

Program Office: Brandeis 101

Program Description: Rooted in the university's Christian, Catholic, and Jesuit traditions, the 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 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.

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 the 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 of the Honors Program. 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 beyond the standard full-time tuition for a given semester, for up to 20 credit hours, subject to Dean's Office Approval.

For all HRS courses, please refer to page 392.



JOURNALISM, MEDIA AND COMPUTING

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: J. Davies, T. Guthrie, J. Maciejewski, D. Reed, M. Wierman, C. Zuegner;
Assistant Professors: K. Boyle.

Department Description: The Department of Journalism, Media and Computing prepares students for professional careers and/or graduate study in a wide range of mass media and computing fields including, news, public relations, advertising, photography, graphic design, and software development. Courses emphasize development of strong writing, critical thinking, visual communication and multimedia skills. Students gain experience through internships, *The Creightonian* newspaper—both in print and online, 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, MEDIA AND COMPUTING

Specific Requirements for Admission to the Informatics and Computing Science Major: None; **Specific Requirements for Admission to the Digital Design Major:** None; **Specific Requirements for Admission to the Graphic Design Major:** None; **Specific Requirements for Admission to the Computer Science Major:** None; **Specific Requirements for Admission to the Journalism Major:** None.

B.S., Major in Informatics and Computing Science: 38 Credits

Journalism, Media and Computing Common Core

CSC 121	Computers and Scientific Thinking	3 credits
GDE 382	Web Design	3 credits
JRM 215	Introduction to Mass Communication Technology	2 credits

(One of the following:)

JRM 219	Media Writing	3 credits
JRM 220	Professional Writing	3 credits

Major Specific Courses

(All of the following:)

CSC 221	Introduction to Programming	3 credits
CSC 222	Object-Oriented Programming	3 credits
CSC 321	Data Structures	3 credits
CSC 414	Computer Organization	3 credits
CSC 421	Algorithm Design and Analysis	3 credits
CSC 599	Senior Capstone	3 credits

(One of the following:)

CSC 533	Programming Languages	3 credits
CSC 548	Software Engineering	3 credits
Two 400-level-or-above computer science courses		6 credits

B.S., Major in Digital Design and Development: 38 Credits

Journalism, Media and Computing Common Core

CSC 121	Computers and Scientific Thinking	3 credits
GDE 382	Web Design	3 credits
JRM 215	Introduction to Mass Communication Technology	2 credits

(One of the following:)

JRM 219	Media Writing	3 credits
JRM 220	Professional Writing	3 credits

Major Specific Courses

(All of the following:)

CSC 221	Introduction to Programming	3 credits
CSC 551	Web Programming	3 credits
CSC 581	Mobile App Development	3 credits
GDE 380	Graphic Design I	3 credits
GDE 423	Interactive Multimedia Design	3 credits
JRM 325	Digital Video	3 credits

(One of the following:)

CSC 222	Object-Oriented Programming	3 credits
CSC 444	Human Computer Interaction	3 credits

(One of the following:)

JRM 327	Social Media	3 credits
JRM 438	Media Ethics	3 credits

(One of the following:)

CSC 599	Senior Capstone	3 credits
GDE 599	Senior Capstone	3 credits

B.A., Major in Graphic Design: 38 Credits

Journalism, Media and Computing Common Core

CSC 121	Computers and Scientific Thinking	3 credits
GDE 382	Web Design	3 credits
JRM 215	Introduction to Mass Communication Technology	2 credits

(One of the following:)

JRM 219	Media Writing	3 credits
JRM 220	Professional Writing	3 credits

Major Specific Courses

(All of the following:)

GDE 380	Graphic Design I	3 credits
GDE 381	Graphic Design II	3 credits
GDE 423	Interactive Multimedia Design	3 credits
GDE 424	Typography	3 credits
GDE 425	3D Graphics and Animation	3 credits
GDE 599	Senior Capstone	3 credits
JRM 325	Digital Video	3 credits
JRM 335	History of American Mass Media	3 credits

(One of the following:)

JRM 438	Media Ethics	3 credits
JRM 529	Law of Mass Communication	3 credits

B. A., Major in Journalism: 38 Credits

Journalism, Media and Computing Common Core

CSC 121	Computers and Scientific Thinking	3 credits
GDE 382	Web Design	3 credits
JRM 215	Introduction to Mass Communication Technology	2 credits

(One of the following:)

JRM 219	Media Writing	3 credits
JRM 220	Professional Writing	3 credits

Major Specific Courses:

The following courses are required for all tracks. Students must choose one track.

(All of the following:)

GDE 380	Graphic Design I	3 credits
JRM 335	History of American Mass Media	3 credits
JRM 438	Media Ethics	3 credits
JRM 529	Law of Mass Communication	3 credits

Advertising Track

(All of the following:)

JRM 313	Principles of Advertising	3 credits
JRM 331	Editing	3 credits
JRM 347	Advertising Campaigns I	3 credits
JRM 433	Advertising Copy Writing	3 credits
JRM 440	Media Research	3 credits

New Media Track

(All of the following:)

GDE 425	3D Graphics and Animation	3 credits
JRM 325	Digital Video	3 credits
JRM 450	Advanced Digital Video	3 credits
JRM 500	Final Cut Studio Master Certification	6 credits

(One of the following:)

GDE 423	Interactive Multimedia Design	3 credits
JRM 327	Social Media	3 credits

News Track

(All of the following:)

JRM 331	Editing	3 credits
JRM 440	Media Research	3 credits
JRM 477	Advanced News Production	1-3 credits

(One of the following:)

JRM 325	Digital Video	3 credits
JRM 375	Photojournalism I	3 credits

(One of the following three writing classes:)

JRM 321	Advanced Reporting	3 credits
JRM 322	Feature Writing	3 credits
JRM 326	Sportswriting	3 credits

Photo Journalism Track

(All of the following:)

JRM 325	Digital Video	3 credits
JRM 375	Photojournalism I	3 credits
JRM 378	Photojournalism II: Picture Editing	3 credits
JRM 377	Photojournalism III: Editorial Illustration	3 credits
JRM 450	Advanced Digital Video	3 credits

Public Relations Track

(All of the following:)

JRM 323	Principles of Public Relations	3 credits
JRM 331	Editing	3 credits
JRM 341	Public Relations Writing	3 credits
JRM 440	Media Research	3 credits

(One of the following:)

JRM 327	Social Media	3 credits
JRM 350	Public Relations Campaigns	3 credits
JRM 375	Photojournalism I	3 credits

Teacher Certification

Students who think they may teach Journalism in secondary schools must consult with the Education Department, the Journalism, Media and Computing Department, and the appropriate agency in the state in which they intend to teach.

For all JRM courses, please refer to page 400. For all CSC courses, please refer to page 335. For all GDE courses, please refer to page 376.



JUSTICE AND PEACE STUDIES

Program Director: Roger Bergman
Program Office: Creighton Hall, Room 425A

Program Description: The Justice and Peace Studies Program offers a JPS 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://www.creighton.edu/ccas/socant/programs/justice/>. 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

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 343	Ecclesiology in Global Context	3 credits
JPS 361	Social Justice in the Dominican Republic***	6 credits
JPS 465	Faith and Political Action	3 credits
JPS 470	Poverty in America	3 credits
SWK 261	Introduction to Social Welfare	3 credits
THL 342	The Church in the Dominican Republic	3 credits

Social Science

(One of the following:)

ECO 203	Introductory Microeconomics	3 credits
ECO 479	Seminar in Economics	3 credits
PLS 435	Global Poverty and Development	3 credits
PLS 481	Poverty, Development, and Public Policy	3 credits
SOC 102	Social Problems	3 credits
SOC 411	Social Inequality and Stratification	3 credits
SRP 455	Food, Society and Environment	3 credits
SRP 465	Faith and Political Action	3 credits
SRP 481	Poverty, Development and Public Policy	3 credits

* Members of the Cortina Community can substitute one credit of JPS 265 toward JPS 365.

** Sections of PHL 250 and THL 250 offered exclusively for members of the Cortina Community satisfy the JPS service learning requirement.

*** If JPS 361 is taken to fulfill the Service Learning component, Social Science is not required.

For all JPS courses, please refer to page 403.

JUSTICE AND SOCIETY

Program Director: Roger Bergman

Program Office: Creighton Hall, 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, Native American Studies, or Criminal Justice focus, requires 37 credit hours.

Web Contact/Information: Additional information about this program may be found at <http://www.creighton.edu/ccas/socant/programs/justice/>. 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, SOC 102, 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

Sociology/Anthropology

(All of the following:)

SOC 312	Quantitative Research Methods in the Social Sciences	3 credits
SOC 314	Statistics for the Social Sciences	4 credits
SOC 301	Social and Cultural Theory	3 credits

Justice and Peace Studies

(All of the following:)

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

*Service Learning***

(One of the following:)

JPS 343	Ecclesiology in Global Context	3 credits
JPS 361	Social Justice in the Dominican Republic	6 credits
JPS 465	Faith and Political Action	3 credits
JPS 470	Poverty in America	3 credits
SWK 261	Introduction to Social Welfare	3 credits

Elective courses

(One of the following:)

ANT 111	Introduction to Anthropology	3 credits
NAS 101	Introduction to Native American Studies	3 credits
SOC 101	Introduction to Sociology: Self and Society	3 credits
SOC 102	Introduction to Sociology: Social Problems	3 credits

Six additional elective credits in SOC and/or ANT chosen in consultation with the JAS Director, plus one of the following:

ECO 203	Introductory Microeconomics	3 credits
ECO 479	Seminar in Economics	3 credits
EDP 361	Social Justice in the Dominican Republic	6 credits
PHL 348	Philosophy of Feminism	3 credits
PHL 358	Social and Political Philosophy	3 credits
PLS 333	Environmental Politics And Policy	3 credits
PLS 435	Global Poverty and Development	3 credits
PLS 481	Poverty, Development, and Public Policy	3 credits
PSY 428	Multicultural Issues in Psychology	3 credits
SRP 435	Literature, Philosophy and Economics	3 credits
SRP 465	Faith and Political Action	3 credits
SRP 470	Poverty in America	3 credits
SWK 261	Introduction to Social Welfare	3 credits

* Members of the Cortina Community can substitute one credit of JPS 265 toward JPS 365.

** Sections of PHL 250 and THL 250 offered exclusively for members of the Cortina Community satisfy the JAS service learning requirement.

MATHEMATICS

Chair: Randall Crist
Department Office: Old Gym, Room 230

Professors: S. Cheng, D. Malik, J. Mordeson, L. Nielsen; Professor Emeritus: D. Fuller;
Associate Professors: J. Carlson, R. Crist, N. Fong;
Assistant Professors: C. Farthing.

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: 21 Credits

Course Requirements

(All of the following:)

MTH 310	Fundamentals of Mathematics	3 credits
MTH 347	Calculus III	3 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: 21-33 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	3 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	3 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 571	Operations Research	3 credits

Requisite Courses: MTH 581 or MTH 591 and Nine 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, MTH 583.

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

MATHEMATICAL LOGIC MINOR

Program Description: Mathematical logic is the study of the processes used in mathematical deduction. It has origins in philosophy. This is because the usual rules for inference and deduction can only be shown by nonmathematical argument. The program of study will examine the nature of formal systems including first-order and second-order logic. Methods of proof will be studied. Much of mathematical logic is based on the assumption that the notion of a set is unambiguous. This assumption was noticed not to be true over a century ago. Fuzzy set theory replaces the yes/no statement of set membership with a qualitative predicate. Related fields will be open to study, e.g., Algebraic Logic. Applications to Law will be featured.

Contact: Chair, Department of Mathematics

(All of the following:)

MTH 245	Calculus I	4 credits
MTH 310	Fundamentals of Mathematics	3 credits
PHL 312	Symbolic Logic	3 credits
MTH 572	Fuzzy Logic	3 credits

(Two of the following:)

PHL 201	Introduction to Logic	3 credits
PHL 469	Contemporary Analytic Philosophy	3 credits
MTH 581	Modern Algebra I	3 credits
MTH 583	Fuzzy Mathematics	3 credits
MTH 591	Analysis I	3 credits

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 273 in the University College section of the Bulletin.

For all MTH courses, please refer to page 408.

MILITARY SCIENCE

Chair: Michael Vick

Department Office: Military Science Building, Room 110

Professor: M. Vick;

Assistant Professors: E. Adams, T. Holub, M. Marvin, C. Whitehurst.

Department Description: The Army Reserve Officers' Training Corps (ROTC), as it exists today, began with President Wilson signing the National Defense Act of 1916. Army ROTC at Creighton University was authorized by the War Department in 1919. The program is a cooperative effort contractually agreed to by the Army and Creighton University as a means of providing officer leadership for the United States Army. As one of the premier Army ROTC programs in the country, the department's mission is to educate, train, develop, and inspire students to become officers and leaders of character for the U.S. Army and the nation. The program does this through a combination of classroom instruction, leadership laboratories, and experiential learning opportunities focused on developing the mind, body, and spirit of students. These opportunities are designed specifically to enhance character and leadership ability in the students/Cadets and to allow them to practice the essential components of leadership: influencing, acting, and improving. Students become members of the Blackwolves Battalion and complete a planned and managed sequence of classroom courses and practical exercises intended to develop each into what an officer must be; a leader of character, a leader with presence, and a leader of intelligence to enable them to reach their full potential as individuals and as effective leaders of groups. The program affords students an excellent opportunity to serve and focuses on the role of Army officers in the preservation of peace and national security, with particular emphasis placed on ethical conduct and the officer's responsibility to society to lead, develop themselves and others, and achieve success. The experience culminates with Cadets earning commissions as Second Lieutenants in the Active Army, United

States Army Reserve, or United States Army National Guard. As an organization committed to lifelong learning, participants may elect to pursue one of the Army's numerous opportunities for follow-on postgraduate study as well. 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 courses.

Army ROTC Military Science Course Requirements (20-21 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

MIL II year

MIL 200	Leadership Laboratory II	0 credits
MIL 211	Basic Individual Leadership Techniques	2 credit
MIL 212	Advance Individual Leadership Techniques	2 credit



Army ROTC Military Science Advanced Courses

Nursing Students Only

MIL 352	ROTC Nurse Summer Training	3 credits
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All students

(All of the following:)

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

(Optional Courses:)

MIL 207	Fundamentals of Army Ranger Training	2 credits
MIL 208	Advanced Army Ranger Training	2 credits
MIL 215	United States Military History	3 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

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.

For all MIL courses, please refer to page 412.

MODERN LANGUAGES AND LITERATURES

Chair: Julian Arribas

Department Office: Humanities Center, Room 216

Professor: J. Arribas; Professor Emeritus: A. Gommermann;
Associate Professors: T. Coffey, R. Recio, E. Rodrigo, I. Santiago-Stommes;
Associate Professor Emerita: G. Romero-Downing;
Assistant Professors: O. Böhlke, J. McClanahan, R. Spangler, D. Vanderboegh;
Assistant Professor Emeritus: D. Gibbs.

Department Description: The Department provides for its major and minor students in French, German and Spanish, and minor students in Italian, programs of study that are conducive to developing competence in the spoken and written language, with a broad and deep knowledge of the literature and culture of the target languages. The Department offers to its students of Chinese, 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>.

College of Arts and
Sciences

PROGRAMS IN FRENCH AND FRANCOPHONE STUDIES

Specific Requirements for Admission to the French Major: Completion of FRN 202, FRN 311 or FRN 315 with a grade of "C" or better.

B.A., Major in French and Francophone Studies: 27 Credits

Course Requirements

(At least 27 credits from the following groups:)

Group A: Advanced Language Skills

FRN 311	Advanced French I	3 credits
FRN 312	Advanced French II	3 credits
FRN 335*	French Conversation	1 credit
FRN 411	Advanced Spoken French	3 credits
FRN 412	Advanced Written French	3 credits
FRN 530	Introduction to Literary Analysis	3 credits
FRN 599	Senior Seminar	3 credits

Group B: Professional Skills and Culture

FRN 314	Business French Communication	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 (travel course)	3 credits

Group C: Literature and the Arts

FRN 540	French Literature: Middle Ages	3 credits
FRN 542	French Literature: Renaissance	3 credits
FRN 543	French Literature: 17th Century	3 credits
FRN 544	French Literature: 18th Century	3 credits
FRN 548	French Literature: 19th Century	3 credits
FRN 549	French Literature: 20th Century	3 credits
FRN 550	La littérature francophone africaine	3 credits
FRN 551	Women Writers in French and Francophone Literature	3 credits
FRN 554	Le Roman français	3 credits
FRN 557	French Poetry	3 credits
FRN 564	History of the French Language	3 credits
FRN 572	French Cinema	3 credits
FRN 575	Directed Independent Readings	1-3 credits

* May be repeated to a limit of 3 credits.

Study Abroad

A minimum of 15 semester hours towards the major must be taken at Creighton. Students returning from studying abroad and majoring in French and Francophone studies must take the Senior Seminar (FRN 599) in their final semester.

FRENCH AND FRANCOPHONE STUDIES MINOR

Program Description: The French and Francophone Studies Minor offers students the opportunity to explore the broad interdisciplinary field of the language and cultures of the French-speaking world. The Minor, designed to complement the students' areas of specialization, will allow them to develop the linguistic and cultural proficiency necessary to function in regions where French is spoken. In addition to obtaining a greater mastery of all language skills (reading, writing, comprehension, speaking), students will acquire and apply terminology specific to their field. Moreover, this program will help students understand the geopolitical significance of the Francophone world. Thus, the Minor will not only develop students' analytical skills, but also teach them to recognize, negotiate, and appreciate cultural difference.

Contact: Chair, Department of Modern Languages and Literatures

(At least 18 credits from the following groups:)*Group A: Language and Culture*

FRN 201	Intermediate French I	3 credits
FRN 202	Intermediate French II	3 credits
FRN 311	Advanced French I	3 credits

Group B: Specialized French Communication

FRN 312	Advanced French II	3 credits
FRN 314	Business French Communication	3 credits
FRN 335*	French Conversation	1 credit
FRN 411	Advanced Spoken French	3 credits
FRN 412	Advanced Written French	3 credits
FRN 564	History of the French Language	3 credits

Group C: French Literature and Culture

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 (study abroad)	3 credits
FRN 530	Introduction to Literary Analysis	3 credits
FRN 549	French Literature: 20th Century	3 credits
FRN 554	Le Roman français	3 credits
FRN 557	French Poetry	3 credits
FRN 572	French Cinema	3 credits

Group D: Francophone Literature and Culture Courses

FRN 530	Introduction to Literary Analysis	3 credits
FRN 550	La littérature francophone africaine	3 credits
FRN 551	Women Writers in French and Francophone Literature	3 credits

* May be repeated to a limit of 3 credits.

Study Abroad

A minimum of 15 semester hours towards the minor must be taken at Creighton.

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 372.

PROGRAMS IN GERMAN STUDIES

Specific Requirements for Admission to the German Studies Major: Completion of GER 202 or GER 303 with a grade of "C" or better.

B.A., Major in German Studies: 27 Credits

Course Requirements

(All of the following:)

GER 303	German Literature and Civilization I	3 credits
GER 304	German Literature and Civilization II	3 credits
GER 497	Directed Independent Research	3 credits

(Six credits from each of the following groups:)

Group A: Travel and Culture

GER 321	German for Business and Economics	3 credits
GER 328	Studies in Contemp. German Culture	3 credits
GER 335*	German Conversation	1 credit
GER 495	Directed Independent Study	3 credits
GER 525	The New Berlin (travel course)	3 credits
GER 568	The Multiplicity of German Culture	3 credits

Group B: Literature and Film

GER 411	Introduction to German Literature	3 credits
GER 493	Directed Independent Readings	3 credits
GER 527	German Literature of the 19th Century	3 credits
GER 529	Contemporary German Literature	3 credits
GER 545	German "Novelle": 19th and 20th Centuries	3 credits
GER 572	Reading German Films	3 credits

(Six additional credits chosen from Groups A or B, or from the following courses:)

GER 374	History of 19th Century Philosophy	3 credits
GER 401	The European Union	3 credits
GER 459	Marxism	3 credits
PLS 301	Western European Political Systems	3 credits

* May be repeated to a limit of 3 credits.

Study Abroad

A minimum of 15 semester hours towards the major must be taken at Creighton.

*GERMAN STUDIES MINOR***Program Description:**

The German Studies Minor offers students the opportunity to explore the broad interdisciplinary field of German and German-speaking Europe. The Minor, which will complement students' areas of specialization, will allow them to attain proficiency in all language skills (reading, writing, speaking, and listening). It will also give students an optimal framework for attaining a solid foundation of knowledge, experience, and skills that will help them understand the culture, literature, and history of the German-speaking countries. Moreover, the Minor will help students understand the transatlantic relationship and prepare them to approach productively the challenges facing our increasingly global world. The Minor not only develops students' analytic skills but also teaches them to recognize, negotiate, and appreciate cultural difference.

Contact: Chair, Department of Modern Languages and Literatures

(All of the following:)*Group A: Language and Culture*

GER 201	Intermediate German I	3 credits
GER 202	Intermediate German II	3 credits
GER 303	German Literature and Civilization I	3 credits
GER 304	German Literature and Civilization II	3 credits

(At least three credits chosen from each of the following groups:)*Group B: Literature and Film*

GER 411	Introduction to German Literature	3 credits
GER 527	German Literature of the Nineteenth Century	3 credits
GER 529	Contemporary German Literature	3 credits
GER 545	German "Novelle": 19th and 20th Centuries	3 credits
GER 572	Reading German Films	3 credits

Group C: Cultural Studies

GER 321	German for Business and Economics	3 credits
GER 328	Studies in Contemporary German Culture	3 credits
GER 335*	German Conversation	1 credit
GER 525	The New Berlin (travel course)	3 credits
GER 568	The Multiplicity of German Culture	3 credits

* May be repeated to a limit of 3 credits.

Study Abroad

A minimum of 15 semester hours towards the minor must be taken at Creighton.

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 374.

PROGRAM IN ITALIAN STUDIES

ITALIAN MINOR

Program Description: The Minor in Italian Studies offers students the opportunity to explore the interdisciplinary field of Italian and Italian speaking Europe. While complementing the students' areas of specialization, particularly in the fields of Italian art and architecture, it will allow them to develop proficiency in all Italian language skills. In addition, this program will broaden their comprehension of Italian culture and help them negotiate cultural differences within Italy and Italian society.

Contact: Chair, Department of Modern Languages and Literatures

(Eighteen credits from the following):*

Group A: Language and Culture

ITA 201	Intermediate Italian I	3 credits
ITA 202	Intermediate Italian II	3 credits
ITA 311	Advanced Italian I	3 credits
ITA 335	Italian Practicum**	1 credit

Group B: Italian Literature and Culture (in Italian)

ITA 328	Studies in Contemporary Italian Culture	3 credits
ITA 411	Introduction to Italian Literature	3 credits
ITA 572	Italian History and Society in Italian Cinema	3 credits

Group C: Italian Art and Architecture (in English)

ITA 525	Rome: Strolling in the Eternal City (travel course)	3 credits
ITA 366	Etruscan and Roman Art	3 credits
ITA 375	History of Italian Renaissance Art and Architecture	3 credits
ITA 377	Seventeenth-Century Art and Architecture	3 credits
ITA 461	The City of Rome	3 credits
ITA 465	The City of Rome Since Antiquity	3 credits

* Students must take at least three credits from each group.

** May be repeated to a limit of 3 credits.

Study Abroad

A minimum of 15 semester hours towards the minor must be taken at Creighton.

PROGRAMS IN SPANISH AND HISPANIC STUDIES

Specific Requirements for Admission to the Spanish Major: Completion of SPN 201 or higher with a grade of “C” or better.

B. A., Major in Spanish and Hispanic Studies: 30 Credits

Course Requirements: The following Spanish courses are required for both the Literary and the Professional tracks. In addition, the student must choose one track.

(All of the following:)

SPN 425 Introduction to Literary Analysis 3 credits

(One of the following:)*

SPN 202 Intermediate Spanish II 3 credits

SPN 203 Intermediate Hispanic Culture and Civilization 3 credits

(Nine credits from the following):**

SPN 311 Advanced Spanish I 3 credits

SPN 312 Spanish Grammar in Context 3 credits

SPN 313 Advanced Spanish Conversation 3 credits

SPN 314 Communicating in Business I 3 credits

SPN 316 Spanish Immersion I (travel course) 3 credits

SPN 317 Spanish Immersion II (travel course) 3 credits

SPN 331 Medical Spanish I 3 credits

SPN 335 Spanish Conversation *** 1 credit

SPN 340 Special Topics in Hispanic Cultures 3 credits

(Six credits from the following:)

SPN 401 Advanced Spanish Composition 3 credits

SPN 421 Civilization and Culture of Spain 3 credits

SPN 422 Latin-American Culture and Civilization 3 credits

SPN 423 Encuentro Hispano I (travel course) 3 credits

SPN 424 Encuentro Español I (travel course) 3 credits

* Students placed at the 300 level or above may not take this course for credit in major.

** Students placed at the 300 level may take four of these courses (12 credits) in Major Advanced Students may replace 300 with 400 level courses with departmental permission

*** May be repeated to a limit of 3 credits.

Professional Track

(Nine credits from the following:)

SPN 426 Survey of Latin-American Literature 3 credits

SPN 427 Survey of Peninsular Literature 3 credits

SPN 430 Communicating in Business II 3 credits

SPN 431 Medical Spanish II 3 credits

SPN 496 Independent Study in the D.R. (travel course) 3 credits

SPN 502 Advanced Spanish Translation 3 credits

SPN 525 Encuentro Español II (travel course) 3 credits

SPN 528 Encuentro Hispano II 3 credits

SPN 540 Eighteenth and Nineteenth-Century Spanish Literature 3 credits

SPN 541 Medieval Spanish Literature 3 credits

SPN 542 Golden Age Spanish Literature 3 credits

SPN 543 Don Quixote 3 credits

SPN 545 Fifteenth-Century Sentimental Novel 3 credits

SPN 547 Nineteenth-Century Spanish Novel 3 credits

SPN 550 Literature of the Colonial Period 3 credits

SPN 551 The Latin-American Novel 3 credits

SPN 552 The Latin-American Short Story 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 559	Contemporary Peninsular Spanish Literature	3 credits
SPN 560	Contemporary Latino(a) Literature	3 credits
SPN 561	From the Generation of 1898 to the Avant-Garde	3 credits
SPN 563	Feminine Voices from Latin-America and Spain	3 credits
SPN 564	History of the Spanish Language	3 credits
SPN 565	Nineteenth-Century Latin-American Novel	3 credits
SPN 568	Multicultural Spain	3 credits
SPN 570	Contemporary Peninsular Cinema	3 credits
SPN 571	Latin-American Film	3 credits
SPN 595	Directed Independent Readings	1-3 credits
SPN 599	Senior Seminar	3 credits

Literary Track

(Nine credits from the following:)

SPN 426	Survey of Latin-American Literature	3 credits
SPN 427	Survey of Peninsular Literature	3 credits
SPN 496	Independent Study in the D.R. (travel course)	3 credits
SPN 525	Encuentro Español II (travel course)	3 credits
SPN 528	Encuentro Hispano II	3 credits
SPN 540	Eighteenth and Nineteenth-Century Spanish Literature	3 credits
SPN 541	Medieval Spanish Literature	3 credits
SPN 542	Golden Age Spanish Literature	3 credits
SPN 543	Don Quixote	3 credits
SPN 545	Fifteenth-Century Sentimental Novel	3 credits
SPN 547	Nineteenth-Century Spanish Novel	3 credits
SPN 550	Literature of the Colonial Period	3 credits
SPN 551	The Latin-American Novel	3 credits
SPN 552	The Latin-American Short Story	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 559	Contemporary Peninsular Spanish Literature	3 credits
SPN 560	Contemporary Latino(a) Literature	3 credits
SPN 561	From the Generation of 1898 to the Avant-Garde	3 credits
SPN 563	Feminine Voices from Latin-America and Spain	3 credits
SPN 564	History of the Spanish Language	3 credits
SPN 565	Nineteenth-Century Latin-American Novel	3 credits
SPN 568	Multicultural Spain	3 credits
SPN 570	Contemporary Peninsular Cinema	3 credits
SPN 571	Latin-American Film	3 credits
SPN 595	Directed Independent Readings	1-3 credits
SPN 599	Senior Seminar	3 credits

*Students majoring or co-majoring in Secondary School Teaching Endorsement 7-12 may substitute three credit hours of student teaching for one 500 level literature course other than SPN 599.

Study Abroad

A minimum of 18 semester hours towards the major must be taken at Creighton.

SPANISH AND HISPANIC STUDIES MINOR

Program Description: The Spanish and Hispanic Studies Minor offers students the opportunity to explore the broad interdisciplinary field of the language and cultures of the Spanish-speaking world. The Minor, designed to complement the students' areas of specialization, will allow them to develop the linguistic and cultural proficiency necessary to work professionally in the United States and in all Spanish-speaking countries while making significant contributions to their communities. In addition to obtaining a greater mastery of all language skills (reading, writing, comprehension, speaking), students will acquire and apply terminology specific to their field. Finally, the Minor, in introducing students to diverse Hispanic literatures and cultures, will not only develop their analytical skills, but also teach them to recognize, negotiate, and appreciate cultural difference.

Contact: Chair, Department of Modern Languages and Literatures

(One of the following:)*

SPN 202	Intermediate Spanish II	3 credits
SPN 203	Intermediate Hispanic Culture and Civilization	3 credits

(Nine credits from the following:)**

SPN 311	Advanced Spanish I	3 credits
SPN 312	Spanish Grammar in Context	3 credits
SPN 313	Advanced Spanish Conversation	3 credits
SPN 314	Communicating in Business I	3 credits
SPN 316	Spanish Immersion I (travel course)	3 credits
SPN 317	Spanish Immersion II (travel course)	3 credits
SPN 331	Medical Spanish I	3 credits
SPN 335	Spanish Conversation ***	1 credit
SPN 340	Special Topics in Hispanic Cultures	3 credits

(Six credits from the following:)

SPN 401	Advanced Spanish Composition	3 credits
SPN 421	Civilization and Culture of Spain	3 credits
SPN 422	Latin-American Culture and Civilization	3 credits
SPN 423	Encuentro Hispano I (travel course)	3 credits
SPN 424	Encuentro Español I (travel course)	3 credits

Note: Students must take at least five courses taught in Spanish towards their minor.

* Students placed at the 300 level or above may not take this course for credit in major.

** Students placed at the 300 level may take four of these courses (12 credits) in Major Advanced Students may replace 300 with 400 level courses with departmental permission

*** May be repeated to a limit of 3 credits.

Study Abroad

A minimum of 12 semester hours towards the minor must be taken at Creighton.

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 467.

NATIVE AMERICAN STUDIES

Program Director: Raymond A. Bucko, S.J.
Program Office: Creighton Hall, 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: 33 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 316	Qualitative Methods for the Social Sciences	3 credits
NAS 324	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
NAS 499	Native American Studies Senior Capstone	3 credits

(One from each of the following groups:)

Group A: Art and Communications

NAS 319	Art International: Art Culture of Global Community	3 credits
NAS 325	Digital Video	3 credits
NAS 375	Photojournalism I	3 credits
NAS 377	Editorial Illustration	3 credits
NAS 378	Photojournalism II	3 credits
NAS 386	History and Aesthetics of Latin American Photography	3 credits
NAS 387	Modern Hispanic Art History	3 credits
NAS 468	Native American Art	3 credits

Group B: Tribal Institutions, Policy and Governmental Relations

NAS 321	American Indian Tribal Government and Politics	3 credits
NAS 335	Federal Indian Policy and Law	3 credits

Group C: Historical and Area Studies

NAS 331	Indians of the Great Plains	3 credits
NAS 346	Peoples and Cultures of Latin America	3 credits

Group D: Cultural Explorations

NAS 340	Native American Culture and Health	3 credits
NAS 353	Introduction to Native American Literature	3 credits
NAS 358	Critical Issues in Study of Native American Religions	3 credits

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

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 421.

PHILOSOPHY

Chair: Kevin Graham

Associate Chair: Eugene E. Selk

Department Office: Humanities Center, Room 105

Professors: J. Carlson, R. Feezell, P. Murray, W. Stephens (secondary appointment), R. White;

Associate Professors: J. Abrams, E. Cooke, K. Graham, J. Hause (secondary appointment),

J. Schuler, E. Selk, J. Yuan;

Resident Assistant Professor: J. Kissell;

Assistant Professors: M. Brown, A. Ozar, R. Romero, S.J., 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 including a tentative schedule of course offerings, may be found at <http://www2.creighton.edu/ccas/philosophy/>. However, for definitive details, students are strongly encouraged to check the University's website for Bulletin changes at <http://www2.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

(All of the following:)

PHL 107	Critical and Historical Introduction to Philosophy	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

(One of the following:)

PHL 201	Introduction to Logic	3 credits
PHL 312	Symbolic Logic	3 credits

(Six credits from the following:)

History of Philosophy

PHL 351	Introduction to Chinese Philosophy	3 credits
PHL 367	American Philosophy	3 credits
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
PHL 374	History of 19 th -Century Philosophy	3 credits

(Six credits from the following:)

Problems of Philosophy

PHL 321	Epistemology	3 credits
PHL 331	Moral Philosophy	3 credits
PHL 334	Philosophy of the Natural Sciences	3 credits
PHL 342	Metaphysics	3 credits
PHL 358	Social and Political Philosophy	3 credits
PHL 422	Aesthetics	3 credits

Nine additional credits of PHL courses numbered 300 or above, no more than three credits of which may be crosslisted as SRP.

B. A., Major in Philosophy, Specialization in Ethics: 36 Credits

Course Requirements

(All of the following:)

PHL 107	Critical and Historical Introduction to Philosophy	3 credits
PHL 250	Philosophical Foundations for Ethical Understanding	3 credits
PHL 320	God and Persons: Philosophical Reflections	3 credits
PHL 331	Moral Philosophy	3 credits
PHL 492	Senior Seminar for Majors	3 credits

(One of the following:)

PHL 201	Introduction to Logic	3 credits
PHL 312	Symbolic Logic	3 credits

(Six credits from the following:)

History of Philosophy

PHL 351	Introduction to Chinese Philosophy	3 credits
PHL 367	American Philosophy	3 credits
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
PHL 374	History of 19 th -Century Philosophy	3 credits

(One of the following:)

Problems of Philosophy

PHL 321	Epistemology	3 credits
PHL 334	Philosophy of the Natural Sciences	3 credits
PHL 342	Metaphysics	3 credits
PHL 358	Social and Political Philosophy	3 credits
PHL 422	Aesthetics	3 credits

(Nine credits from the following:)

Ethics

PHL 317	Philosophy of Sport	3 credits
PHL 332	World Philosophy	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 358	Social and Political Philosophy	3 credits
PHL 359	History of Ethics	3 credits
PHL 360	History of Mediaeval Ethics	3 credits
PHL 365	Classics of Political Thought	3 credits
PHL 368	Moral Psychology	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 456	Public Health Ethics	3 credits
PHL 457	Biomedical Ethics: Philosophical & Theological Approaches	3 credits
PHL 482	Race in America: Idea and Reality	3 credits

*Note: No more than one course that is crosslisted as SRP may be applied to this major.

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, Professor of Theology; Eugene Selk, Associate Professor of Philosophy

Foundational Ethics

(All of the following:)

PHL 250	Philosophical Foundations for Ethical Understanding	3 credits
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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 348	Philosophy of Feminism	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	3 credits
SRP 409	Race and Gender Relations: Moral & Ethical Dilemmas	3 credits
THL 250	Theological Foundations for Ethical Understanding	3 credits

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

SOC 335 Technology and Human Values 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

PHILOSOPHY MINOR

Program Description: The study of philosophy involves both understanding how philosophers of the past have approached a variety of philosophical problems and understanding how a single set of related philosophical problems could be approached in a variety of different ways. Students study both the history and the problems of philosophy.

Contact: Associate Chair, Department of Philosophy

(All of the following:)

PHL 107 Critical and Historical Introduction to Philosophy 3 credits

(One of the following:)

History of Philosophy

PHL 351 Introduction to Chinese Philosophy 3 credits

PHL 367 American Philosophy 3 credits

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

PHL 374 History of 19th-Century Philosophy 3 credits

(One of the following:)

Problems of Philosophy

PHL 321 Epistemology 3 credits

PHL 331 Moral Philosophy 3 credits

PHL 334 Philosophy of the Natural Sciences 3 credits

PHL 342 Metaphysics 3 credits

PHL 358 Social and Political Philosophy 3 credits

PHL 422 Aesthetics 3 credits

Nine additional credits of PHL courses numbered 300 or above, no more than three credits of which may be crosslisted as SRP.

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 431.

PHYSICS

Chair: Janet Seger

Department Office: Hixson-Lied Science Building, Room G81

Professors: M. Cherney, J. Seger; Professor Emeriti: S. Cipolla, T. Zepf;

Associate Professors: G. Duda, M. Nichols, D. Sidebottom;

Associate Professor Emeritus: R. Kennedy;

Assistant Professors: J. Gabel, T. McShane, S.J., P. Soto.

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" grade in PHY 211.

B.S., Major in Physics: 36 Credits

Course Requirements

(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 559	Gravitation and Cosmology	3 credits
PHY 561	Nuclear Physics	3 credits
PHY 563	High Energy Nuclear Physics	1 credit
PHY 571	Condensed Matter 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	Condensed Matter Laboratory	1 credit

Requisite Courses: MTH 245, 246, 347; additional coursework in physics, mathematics, computer science, chemistry, biology, or other science is recommended. Choices will depend on the specific career plans and interests of the students.

*PHY 221/223 and PHY 222/224 can be substituted for the PHY 211/212 requirement.

B.S., Major in Applied Physical Analysis: 36 Credits

Course Requirements

(All of the following:)

PHY 211	General Physics I*	4 credits
PHY 212	General Physics II*	4 credits
PHY 471	Classical Mechanics	3 credits
PHY 591	Seminar in Engineering	1 credit
MTH 545	Differential Equations	3 credits
MTH 561	Mathematical Statistics I	3 credits
MTH 562	Mathematical Statistics II	3 credits

(One of the following:)

CSC 221	Introduction to Programming	3 credits
PHY 553	Computational Physics	3 credits

(Three credits from the following:)

PHY 497	Directed Independent Research	3 credits
ERG 481	Senior Project in Energy Studies I	3 credits

(Nine credits from the following:)

CSC 222	Object-Oriented Programming	3 credits
CSC 321	Data Structures	3 credits
CSC 414	Introduction to Computer Organization	3 credits
CSC 421	Algorithm Design and Analysis	3 credits
CSC 533	Programming Languages	3 credits
CSC 548	Software Engineering	3 credits
CSC 590	Special Topics	3 credits
ERG 211	Design and Rapid Prototyping Lab I	1 credit
ERG 212	Design and Rapid Prototyping Lab II	1 credit
ERG 241	Introduction to Energy Transfer	3 credits
ERG 251	History and Technology in the Modern World	2 credits
ERG 311	Design and Rapid Prototyping Lab III	1 credit
ERG 312	Design and Rapid Prototyping Lab IV	1 credit
MTH 529	Linear Algebra	3 credits
MTH 543	Numerical Analysis	3 credits
MTH 546	Partial Differential Equations	3 credits
MTH 551	Differential Geometry	3 credits
MTH 555	Chaotic Dynamical Systems	3 credits
MTH 563	Mathematical Statistics III	3 credits
MTH 571	Operations Research	3 credits
MTH 572	Fuzzy Logic	3 credits
MTH 573	Probabilistic Models	3 credits
MTH 575	Introductory Stochastic Processes	3 credits
PHY 301	Modern Physics	3 credits
PHY 303	Electronics Laboratory	1 credit
PHY 331	Physical Optics	3 credits
PHY 332	Optics Laboratory	1 credit
PHY 481	Electricity And Magnetism	3 credits
PHY 491	Seminar	1 credit
PHY 521	Electronics for Scientists	3 credits
PHY 522	Electric Circuits	3 credits
PHY 531	Quantum Mechanics	3 credits
PHY 541	Thermodynamics And Statistical Mechanics	3 credits
PHY 551	Mathematical Physics	3 credits
PHY 553	Computational Physics	3 credits
PHY 561	Nuclear Physics	3 credits
PHY 562	Nuclear Instruments And Methods	2 credits
PHY 571	Condensed Matter Physics	3 credits
PHY 572	Condensed Matter Laboratory	1 credit
PHY 587	Laser Physics	3 credits

Requisite courses: MTH 245, MTH 246, MTH 347.

*PHY 221/223 and PHY 222/224 can be substituted for the PHY 211/212 requirement.

B.S. Phy., Major in Physics: 48-50 Credits

Course Requirements

Students must complete the physics courses listed for the B.S., Major in Physics. 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.

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

*PHY 221/223 and PHY 222/224 can be substituted for the PHY 211/212 requirement.

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.

**PHY 221/223 and PHY 222/224 can be substituted for the PHY 211/212 requirement.

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 437.

POLITICAL SCIENCE AND INTERNATIONAL RELATIONS

Chair: Graham P. Ramsden

Department Office: Creighton Hall, Room 430A

Professors: T. Clark, S. Crawford, J. Wunsch;

Professor Emeritus: B. Evans;

Associate Professors: P. Meeks, G. Ramsden, R. Witmer;

Associate Professor Emeritus: K. Wise;

Assistant Professors: E. Moreno, M. Jiang, S. Hendrickson.

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://www2.creighton.edu/ccas/politicalscience>. 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: 34-40 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, Survey Research	3 credits
PLS 437	Religion and Public Life in the United States	3 credits
PLS 465	Faith And Political Action	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 313	Politics of Middle East	3 credits
PLS 315	Politics of Asia	3 credits
PLS 316	Government/Politics of People's Republic of China	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 411	Politics of Africa	3 credits
PLS 435	Global Poverty and Development	3 credits
PLS 465	Faith And Political Action	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 472	International Conflict	3 credits
PLS 537	International Law	3 credits

Political Philosophy and Theory

PLS 357	Alternative Political Futures	3 credits
PLS 360	Liberal Democracy and Its Critics	3 credits
PLS 362	Conservative Political Thought	3 credits
PLS 365	Classics of 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 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 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 333	Environmental Politics and Policy	3 credits
PLS 334	Public Policy and Health Care	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
PLS 481	Poverty, Development, and Public Policy	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 comparative politics at the 300 or 400 level.		3 credits
Three credits in international relations at the 300 or 400 level.		3 credits

Recommended:

PLS 483	Public Affairs Internship	3 credits
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Requisite Courses for Public Policy Track: ECO 203, 205.

Legal Studies Track

PLS 320	Judicial Process	3 credits
PLS 337	Constitutional Law	3 credits
PLS 367	Theory of Law	3 credits
PLS 537	International Law	3 credits

Three credits in either International Relations or Comparative Politics subfield 3 credits

Six credits in either American Govern./Politics or Public Policy/Law subfield 6 credits

Requisite Courses for Legal Studies Track: Students will select 6 credits from the following: BUS 201, BUS 301, ECO 203, ECO 205, JRM 529, PHL 440, PLS 356, PSY 363, SOC 321, SOC 423.

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

(Six credits from the following:)

PLS 345	International Political Economy	3 credits
PLS 347	International Regimes	3 credits
PLS 435	Global Poverty and Development	3 credits
PLS 472	International Conflict	3 credits

(Twelve credits from 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 313	Politics of the Middle East	3 credits
PLS 315	Politics of Asia	3 credits
PLS 316	Government/Politics of People's Republic of China	3 credits
PLS 317	Latin American Government and Politics	3 credits
PLS 319	Politics of the Developing Areas	3 credits
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 345	International Political Economy	3 credits
PLS 347	International Regimes	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 411	Politics of Africa	3 credits
PLS 435	Global Poverty and Development	3 credits
PLS 440	Seminar on International Studies	3 credits
PLS 472	International Conflict	3 credits
PLS 481	Poverty, Development, and Public Policy	3 credits
PLS 510	The New Institutionalism	3 credits
PLS 537	International Law	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.

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 472	International Conflict	3 credits
PLS 481	Poverty, Development, and Public Policy	3 credits
PLS 537	International Law	3 credits



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
JRM 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

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

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 333	Environmental Politics	3 credits
PLS 334	Public Policy and Health Care	3 credits
PLS 335	Federal Indian Policy and Law	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

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.

For all PLS courses, please refer to page 442.

PSYCHOLOGY

Chair: T. Lee Budesheim

Associate Chair: G. Leak

Department Office: Hixson-Lied Science Building, Room 302

Professors: M. Huss, G. Leak, R. Lueger;

Professor Emeriti: L. Gardner, M. Ware;

Associate Professors: A. Badura Brack, T.L. Budesheim, L. Finken, M. Khanna, J.V. Lupo;

Assistant Professors: J. Allen, J. Brown, C. Guenther, D. Stairs.

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://www.creighton.edu/ccas/psychology>. 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, a 2.00 GPA in completed PSY courses, completion of at least 24 hours of undergraduate study, and at least one PSY course in residence at Creighton University.

B.A., Major in Psychology: 34 Credits

Course Requirements

Group A: Introduction and Fundamental Methodologies 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

(Foundational Courses: At least one course, but no more than two, from each of the following three groups totaling fifteen credits:)

Group B: Experimental/Mechanistic Approaches to Psychology

PSY 431	Cognitive Psychology	3 credits
PSY 433	Motivation and Emotion	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 474	Undergraduate Intern. in Industrial/Org. Psychology	3 credits
PSY 428	Multicultural Issues in Psychology	3 credits
<i>Or</i>		
PSY 473	Psychology of Gender	3 credits
PSY 491	Honors Seminar	3 credits

Elective Courses: Students must also take nine additional credits of PSY elective courses. SWK 261 or BIO 571 also count as electives. 9 credits

BEHAVIORAL AND COGNITIVE NEUROPSYCHOLOGY MINOR

Program Description: This program provides a systematic introduction to the neural basis of mental function. It includes 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

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 274 in the University College section of the Bulletin.

For all PSY courses, please refer to page 448.

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 Jerold J. Abrams, Humanities Center, Room 303. 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 455.

SOCIAL WORK

Program Director: G.H. Grandbois
Program Office: Creighton Hall, Room 436

Associate Professor: G.H. Grandbois;
Assistant Professor: B. Harris.

Department Description: The Social Work Program's mission is "Informed by Ignatian ideals, a global perspective, social work knowledge, values, skills, ethics, history and purpose, the Social Work Program is dedicated to the formation of competent, effective entry level generalist social work practitioners, as social change agents committed to the well-being of self and others, engaging in the pursuit of social and economic justice, empowerment of vulnerable populations, human rights, and the advancement of social work knowledge including the mutual influence of research and social work practice."

The goals of the Social Work Program are: 1). Prepare entry-level generalist practitioners who apply ethical decision-making based on the National Association of Social Work Code of Ethics, and the Ignatian charisms integrating personal and professional ideals through mature self-evaluation and self-reflection, 2). Prepare undergraduate generalist social work practitioners grounded in evidence-informed practice, to work with individual, families, groups, organizations and communities including an understanding and applicability of the global perspective for practice and 3). Prepare social work leaders committed to advancing social and economic justice and human rights along with reducing social and economic inequities in society.

The Social Work program is accredited by the Council on Social Work Education.

Web Contact/Information: Additional information about this program may be found at <http://www.creighton.edu/ccas/social-work/>. 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, and a personal interview.

B.S.W. Major in Social Work: 32 Credits

Course Requirements

(All of the following:)

SWK 261	Introduction to Social Welfare	3 credits
SWK 275	Human Behavior and the Social Environment	4 credits
SWK 345	Practice I-Social Work with Individuals and Families	3 credits
SWK 346	Pre-Practicum	1 credit
SWK 351	Economics, Policy and Social Welfare	3 credits
SWK 359	Practice II: Social Work with Groups	3 credits
SWK 435	Practice III: Advocacy, Injustice, Oppression, and Ethical Decision-making	3 credits
SWK 460	Field Practicum Seminar I	2 credits
SWK 461	Field Practicum I	4 credits
SWK 480	Field Practicum Seminar II	2 credits
SWK 481	Field Practicum II	4 credits

CSWE standards require that social work majors enter their careers with solid foundations in relevant content areas. Students should, therefore, be alert to the following pre-requisite courses:

(All of the following):

PSY 111	Introductory Psychology	3 credits
SOC 101	Introduction to Sociology: Self and Society*	3 credits

(One of the following:)*

PSY 313	Research Methods and Statistics I*	3 credits
SOC 312	Quantitative Methods in the Social Sciences	3 credits

And

SOC 314	Statistics for the Social Sciences	4 credits
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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 and must be certified ready for practicum.

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.

*Students may take PSY 313 or SOC 312/314 or another statistics course to meet the requirement.

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 460.

SOCIOLOGY AND ANTHROPOLOGY

Chair: Raymond Bucko, S.J.

Department Office: Creighton Hall, Room 437

Professors: R. Bucko, S.J., C. Harper; Professor Emeritus: J. Angus;
Associate Professors: J. Ault, R. Bergman, B. Dilly, G.H. Grandbois, R. Murray;
Associate Professor Emeritus: J. Clark;
Assistant Professors: B. Harris, L. Heinemann, D. Irlbeck, A. Rodlach.

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, societies, and cultures, and how people interact within these contexts. Since all human behavior is social, the subject matter of sociology and anthropology ranges 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 ANTHROPOLOGY

Specific Requirements for Admission to the Cultural and Medical Anthropology Major: Successful completion of ANT 101, 111 or 112 with a grade of “C” or better and 3 credits in another Sociology or Anthropology course with a grade of “C” or better.

B.A., Major in Cultural Anthropology: 36 Credits

Course Requirements

(All of the following:)

ANT 301	Social and Cultural Theory	3 credits
ANT 316	Qualitative Methods in the Social Sciences	3 credits
ANT 499	Globalization	3 credits

(One of the following:)

ANT 101	Introduction to Native American Studies	3 credits
ANT 111	Introduction to Anthropology: Human and Cultural Diversity	3 credits
ANT 112	Introduction to Anthropology: Culture, Energy, and Sustainability	3 credits

(Six credits from the following:)

ANT 324	Native American World View	3 credits
ANT 331	Indians of the Great Plains	3 credits
ANT 340	Native American Cultures and Health	3 credits
ANT 342	Peoples and Cultures of Sub-Saharan Africa	3 credits
ANT 343	Peoples and Cultures of Native North America	3 credits
ANT 346	Peoples and Cultures of Latin America	3 credits
ANT 358	Critical Issues in Study of Native American Religions	3 credits
ANT 424	Sustainability and Rural America	3 credits
Eighteen credits from any ANT courses numbered above 300.		18 credits

Note: ANT 493, 495 and 497 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 312 and ANT 314. 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).

B.A., Major in Medical Anthropology: 36 Credits

Course Requirements

(All of the following:)

ANT 301	Social and Cultural Theory	3 credits
ANT 312	Quantitative Methods in the Social Sciences	3 credits
ANT 316	Qualitative Methods in the Social Sciences	3 credits
ANT 363	Medical Anthropology	3 credits
ANT 499	Globalization: Applying the Social Sciences	3 credits

(Nine credits from the following:)

ANT 307	Demography	3 credits
ANT 315	Health Care, Society, and Culture	3 credits
ANT 317	Global Health Issues*	3 credits
ANT 383	Cultural Epidemiology	3 credits
ANT 411	Social Inequality and Stratification	3 credits

(One of the following:)

ANT 101	Introduction to Native American Studies	3 credits
ANT 111	Introduction to Anthropology: Human and Cultural Diversity	3 credits
ANT 112	Introduction to Anthropology: Culture, Energy, and Sustainability	3 credits

(One of the following:)

ANT 331	Indians of the Great Plains	3 credits
ANT 342	Peoples and Cultures of Sub-Saharan Africa	3 credits
ANT 343	Peoples and Cultures of Native North America	3 credits
ANT 346	Peoples and Cultures of Latin America	3 credits
ANT 424	Sustainability and Rural America	3 credits

(Six credits from the following:)

ANT 314	Statistics for the Social Sciences	4 credits
ANT 340	Native American Cultures and Health	3 credits
ANT 352	Witchcraft, Oracles and Magic	3 credits
ANT 355	Environment and Society: Sociological Perspectives	3 credits
ANT 385	Community Internship I, II	3 credits
ANT 455	Food Society and Environment	3 credits
ANT 493	Directed Independent Readings**	1-3 credits
ANT 495	Directed Independent Study**	1-3 credits
ANT 497	Directed Independent Research**	1-6 credits
ANT 570	Geographic Info System	3 credits
BIO 212	General Biology: Organismal and Population	4 credits
BIO 581	Evolution	4 credits
PLS 334	Public Policy and Health Care	3 credits
PSY 428	Multicultural Issues in Psychology	3 credits
SOC 335	Technology and Human Values	3 credits
SRP 457	Biomedical Ethics	3 credits
THL 205	Sickness and Healing in the Bible	3 credits

* Graduating seniors, who have not taken ANT 317 are encouraged to take NUR 501.

**May be repeated to a limit of six credits.

B.S.W., Major in Social Work

See the description for this interdisciplinary major, offered through the Department of Sociology and Anthropology on page 197.

B.A., Major in Justice and Society

See the description for this interdisciplinary major, offered through the Department of Sociology and Anthropology on page 165.

MEDICAL ANTHROPOLOGY MINOR

Program Description: The medical anthropology minor provides a holistic perspective utilizing both cultural and biological approaches to investigate human experiences of illness, suffering and healing and familiarizes students with anthropological research methods essential to medical anthropology. The minor explores how culture shapes healing systems; examines the relationships between healing and other social institutions; and investigates the political and economic influences on disease patterns and health outcomes. This minor will enhance the student's ability to provide health care to the culturally diverse populations that characterize contemporary America as well as providing health care in the global community.

Contact: Chair, Department of Sociology and Anthropology

(All of the following:)

ANT 363 Medical Anthropology 3 credits

(One of the following:)

ANT 101 Introduction to Native American Studies 3 credits

ANT 111 Introduction to Anthropology: Human and Cultural Diversity 3 credits

ANT 112 Introduction to Anthropology: Culture, Energy, and Sustainability 3 credits

(One of the following:)

ANT 312 Quantitative Methods in the Social Sciences 3 credits

ANT 316 Qualitative Methods in the Social Sciences 3 credits

(Three credits from the following:)

ANT 331 Indians of the Great Plains 3 credits

ANT 342 Peoples and Cultures of Sub-Saharan Africa 3 credits

ANT 343 Peoples and Cultures of Native North America 3 credits

ANT 346 Peoples and Cultures of Latin America 3 credits

ANT 424 Sustainability and Rural America 3 credits

(Six credits from the following:)

ANT 301 Social and Cultural Theory 3 credits

ANT 307 Demography: World Population Issues 3 credits

ANT 314 Statistics for the Social Sciences 4 credits

ANT 315 Healthcare, Society and Culture 3 credits

ANT 317 Global Health Issues 3 credits

ANT 340 Native American Cultures and Health 3 credits

ANT 352 Witchcraft, Oracles and Magic 3 credits

ANT 383 Cultural Epidemiology: Global Perspectives 3 credits

ANT 411 Social Inequality and Stratification 3 credits

BIO 212 General Biology: Organismal And Population 4 credits

BIO 581 Evolution 4 credits

PSY 428 Multicultural Issues in Psychology 3 credits

PLS 334 Public Policy And Health Care 3 credits

SRP 457 Biomedical Ethics 3 credits

THL 205 Sickness, Disability, and Healing in the Bible 3 credits

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 295.

PROGRAMS IN SOCIOLOGY

Specific Requirements for Admission to the Sociology Major: Completion of SOC 101 or SOC 102 with a grade of “C” or better, and three credits in another 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.

(All of the following:)

SOC 301	Social and Cultural Theory	3 credits
SOC 312	Quantitative Research Methods in the Social Sciences	3 credits
SOC 314	Statistics for the Social Sciences	4 credits
SOC 411	Social Inequality and Stratification	3 credits
SOC 499	Globalization	3 credits

(One of the following:)

SOC 101	Introduction to Sociology: Self and Society	3 credits
SOC 102	Introduction to Sociology: Social Problems	3 credits

Standard Sociology Track**(Eighteen credits chosen from the following:)**

SOC 307	Demography: World Population Issues	3 credits
SOC 309	The Urban Social System	3 credits
SOC 315	Healthcare, Society and Culture	3 credits
SOC 316	Qualitative Methods in the Social Sciences	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 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 423	Law and Society	3 credits
SOC 424	Sustainability and Rural America	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
SOC 497	Directed Independent Research	1-6 credits
SOC 570	Introduction to Geographic Information Systems	4 credits

Applied Research Methods Track

(All of the following:)

SOC 307	Demography: World Population Issues	3 credits
SOC 497	Directed Independent Research	6 credits
SOC 570	Introduction to Geographic Information Systems	4 credits

(Five credits from the following:)

SOC 309	The Urban Social System	3 credits
SOC 316	Qualitative Methods in the Social Sciences	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 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 423	Law and Society	3 credits
SOC 424	Sustainability and Rural America	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

Criminal Justice Policy Track

(All of the following:)

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

(Six credits from the following:)

SOC 307	Demography: World Population Issues	3 credits
SOC 309	The Urban Social System	3 credits
SOC 315	Healthcare, Society and Culture	3 credits
SOC 316	Qualitative Methods in the Social Sciences	3 credits
SOC 317	Global Health Issues	3 credits
SOC 318	Gender in American Society	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 424	Sustainability and Rural America	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
SOC 497	Directed Independent Research	1-6 credits
SOC 570	Introduction to Geographic Information Systems	4 credits
PLS 337	Constitutional Law	3 credits

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:)

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

(Six credits from the following:)

SOC 307	Demography: World Population Issues	3 credits
SOC 309	The Urban Social System	3 credits
SOC 316	Qualitative Methods in the Social Sciences	3 credits
SOC 317	Global Health Issues	3 credits
SOC 318	Gender in American Society	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 424	Sustainability and Rural America	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
SOC 497	Directed Independent Research	1-6 credits
SOC 570	Introduction to Geographic Information Systems	4 credits
PLS 320	Judicial Process	3 credits
PLS 337	Constitutional Law	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 342	Peoples and Cultures of Sub-Saharan Africa	3 credits
ANT 346	Peoples and Cultures of Latin America	3 credits
SOC 317	Global Health Issues	3 credits
SOC 360	Gender, Society and Culture	3 credits
SOC 423	Law and Society	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

(One of the following:)

SOC 101	Introduction to Sociology: Self and Society	3 credits
SOC 102	Introduction to Sociology: Social Problems	3 credits
Fifteen credits from any SOC courses numbered above 300.		15 credits

NOTE: SOC 385, 487, 493, 495, and 497 cannot be applied towards this minor.

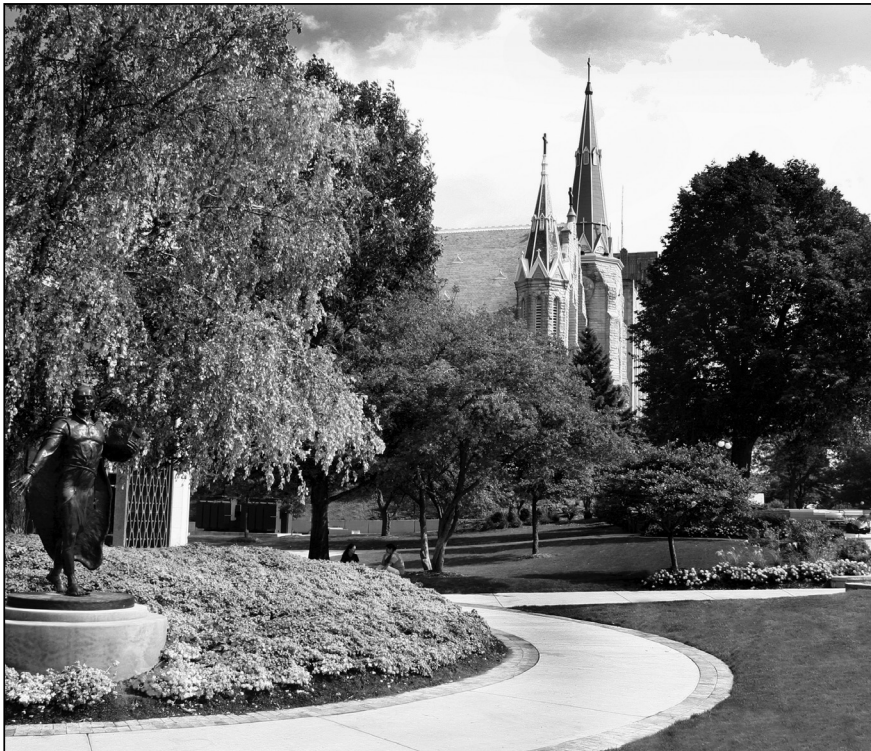
Teacher Certification

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 463.



THEOLOGY

Chair: Julia A. Fleming

Department Office: Humanities Building, Room 121

Professors: J. Fleming, D. Hamm, S.J., W. Harmless, S.J., R. Hauser, S.J., B. Malina, J. Mueller, J. O'Keefe, R. Reno, R. Simkins, T. Salzman, W. Wright;

Professor Emeritus: M. Lawler;

Associate Professors: E. Burke-Sullivan, T. Kelly, N. Roddy, R. Miller;

Assistant Professors: S. Calef, H. A. Hall, J. Carney.

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://www.creighton.edu/ccas/theology/index.php>. 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./M.A. Theology/Religious Education Teaching Certification (5 Years)

The departments of Theology and Education offer a national accelerated five-year Bachelor's and Master's degree program with teaching certification in religious education. Students concentrate on a theological curriculum that prepares them to teach religion. The Education component offers full Nebraska state certification for those remaining in the state as well as methods for teaching religion for those teaching elsewhere. Significant tuition scholarships are available for the one year of graduate studies. For more information, contact the Theology Department or Education Department.

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 390	History of the Christian Church	3 credits
THL 492	Senior Seminar	3 credits

(One of the following:)

THL 331	Jesus Christ: Liberator	3 credits
THL 335	Jesus Christ Yesterday and Today	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 the Environment in the Bible	3 credits
THL 203	Biblical Ancestors and Heroes	3 credits

New Testament Scripture

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

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 505	History of Biblical Interpretation	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 523	Israelite Religions	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
THL 594	Seminar in Biblical Studies	3 credits

Doctrinal, Historical or Liturgical Theology

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 536	The Mystery of God and Suffering of Human Beings	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 541	God is Green	3 credits
THL 544	Christian Celebration: The Liturgical Year	3 credits
THL 545	Liturgy and Christian Life	3 credits
THL 552	Studies in Medieval Christianity	3 credits
THL 555	Major Christian Theologian	3 credits
THL 556	Christianity and Modern Humanism	3 credits
THL 596	Seminar in Historical Studies	3 credits

Christian Life Studies

THL 416	For the Greater Glory: The Jesuits, History Spirituality	3 credits
THL 457	Biomedical Ethics	3 credits
THL 458	Theology and the Vocation to Health Care	3 credits
THL 541	God is Green	3 credits
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 566	Catholic Social and Sexual Ethics	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 576	Introduction to Jesuit Spirituality	3 credits
THL 579	Special Methods Teaching Religion Secondary Schools	3 credits
THL 587	Methods of Teaching Religion in Elementary School	3 credits
THL 588	Christian Ethics of War and Peace	3 credits
THL 598	Seminar Christian Life Studies	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:

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 505	History of Biblical Interpretation	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 523	Israelite Religions	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
THL 594	Seminar in Biblical Studies	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:

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 536	The Mystery of God and Suffering of Human Beings	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 541	God is Green	3 credits
THL 544	Christian Celebration: The Liturgical Year	3 credits
THL 545	Liturgy and Christian Life	3 credits
THL 552	Studies in Medieval Christianity	3 credits
THL 555	Major Christian Theologian	3 credits
THL 556	Christianity and Modern Humanism	3 credits
THL 596	Seminar in Historical Studies	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:

THL 416	For the Greater Glory: The Jesuits, History Spirituality	3 credits
THL 457	Biomedical Ethics: Philosophical and Theological Approaches	3 credits
THL 458	Theology and the Vocation to Health Care	3 credits
THL 541	God is Green	3 credits
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 566	Catholic Social and Sexual Ethics	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 576	Introduction to Jesuit Spirituality	3 credits
THL 579	Special Methods Teaching Religion Secondary Schools	3 credits
THL 587	Methods of Teaching Religion in Elementary School	3 credits
THL 588	Christian Ethics of War and Peace	3 credits
THL 598	Seminar Christian Life Studies	3 credits

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, Professor of Theology; Eugene Selk, Associate Professor of Philosophy

Foundational Ethics

(All of the following:)

PHL 250 Philosophical 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 348 Philosophy of Feminism 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 3 credits

SRP 409 Race and Gender Relations: Moral & Ethical Dilemmas 3 credits

THL 250 Theological Foundations for Ethical Understanding 3 credits

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 the Environment in the Bible 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 505	History of Biblical Interpretation	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 519	Reading the Bible in the Context of the Time	3 credits
THL 520	The Dead Sea Scrolls	3 credits
THL 523	Israelite Religions	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
THL 594	Seminar in Biblical Studies	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
GRK 201	Intermediate Greek	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 402	Hellenistic History	3 credits
CNE 403	Roman Republic	3 credits
CNE 404	Roman Empire	3 credits
CNE 418	Great Empires of the Near East	3 credits
CNE 419	Ancient Egypt: History, Society and Culture	3 credits
THL 350	Archaeology of Israel and Jordan	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 the Environment in the Bible	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 327	Christianity and the Holocaust	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 343	Ecclesiology in Global Context	3 credits
THL 344	Theology of Christian Marriage	3 credits
THL 390	History of the Christian Church	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 536	The Mystery of God and Suffering of Human Beings	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 541	God is Green	3 credits
THL 544	Christian Celebration: The Liturgical Year	3 credits
THL 545	Liturgy and Christian Life	3 credits
THL 552	Studies in Medieval Christianity	3 credits
THL 555	Major Christian Theologian	3 credits
THL 556	Christianity and Modern Humanism	3 credits
THL 596	Seminar in Historical Studies	3 credits

One additional course from the 300- and 500-level courses listed above. 3 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

(All of the following:)

THL 250 Theological Foundations for Ethical Understanding 3 credits
Ethics and/or Spirituality

(Fifteen credits from the following:)

THL 416	For the Greater Glory	3 credits
THL 457	Biomedical Ethics: Philosophical and Theological Approaches	3 credits
THL 458	Theology and the Vocation to Health Care	3 credits
THL 541	God is Green	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 566	Catholic Social and Sexual Ethics	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 576	Introduction to Jesuit Spirituality	3 credits
THL 588	Christian Ethics of War and Peace	3 credits
THL 598	Seminar Christian Life Studies	3 credits

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 273-275 in the University College section of the Bulletin.

For all THL courses, please refer to page 475.

WOMEN'S AND GENDER STUDIES

Program Director: Susan Calef

Program Office: Dowling Hall-Humanities Center, Room 125

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

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

(All of the following:)

WGS 300 Introduction to Women's and Gender Studies 3 credits

(Fifteen credits from the following:)

ARH 435	Women, Art, and Society	3 credits
ENG 312	Mass Media and Modern Culture	3 credits
HIS 390	Biography as History	3 credits
IDC 491	Women in Science	1 credit
PSY 374	Human Sexuality	3 credits
PSY 375	Marriage and Family Relationships	3 credits
PSY 428	Multicultural Issues in Psychology	3 credits
SOC 341	American Cultural Minorities	3 credits
SRP 437	The Environment and Race, Class, and Gender	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 American 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 473	The Psychology of Gender	3 credits
WGS 477	Gendered Health Across the Lifespan	3 credits
WGS 479	The Philosophy of Love and Sex	3 credits
WGS 495	Directed Independent Study	1-3 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

For all WGS courses, please refer to page 485.

OTHER ACADEMIC PROGRAMS

Arts-Engineering Program

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>Second Semester</i>	<i>Sem. Hrs.</i>
<i>First Semester</i>	<i>Sem. Hrs.</i>	PHY 212 General Physics II	4
PHY 211 General Physics I	4	MTH 246 Calculus II	4
MTH 245 Calculus I	4	ENG 120 World Literature I	3
ENG 150 Rhetoric and Composition	3	PHL 107 Crit. and Hist. Intro. to Phil.	3
HIS 101 The Modern Western World	3	(One of the following:)	
THL 100 Christianity in Context	3	COM 152 Principles of Comm. Comp.	3
RSP 101 Ratio Studiorum Program	1	ENG 251 Advanced Composition	3
	18		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
(One of the following:)		(One of the following:)	
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
BIA 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 to 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 courses of study 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 accredited college or university. Additional standards and conditions for admission may be imposed in some states. Similarly, Creighton's School of Law requires proof of a bachelor's degree prior to beginning legal studies. However, students enrolled in Creighton's 3/3 program will be considered for admission prior to receipt of their 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

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, health professions 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 online at <http://www.creighton.edu/health/prehealth/>. 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 go online at <http://www.creighton.edu/health/prehealth/> or contact the Advising Resources Center (ARC) in the Hixson-Lied Science Building, Room G06, at the earliest opportunity.

Pre-Dental 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 in the summer following the junior year, students take the national admission examination, the DAT (Dental Admission Test). During the senior year, professional school admission committees review the students' applications. The first round of acceptances are announced on December 1 of the senior year.

Pre-Medical General Requirements

The Creighton University School of Medicine requires applicants to have completed specific courses in the basic sciences, and strongly urges students to consider advanced coursework particularly in biochemistry, but also in cell biology, genetics, anatomy, or physiology. The School also places considerable value on 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 or 285/286)	4-5
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 during the spring of the junior year through the beginning of the senior year (September), 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. A supplemental application to CUSOM is also required. 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 General Requirements

Pre-pharmacy preparation consists of at least 63 semester hours. Creighton undergraduates preparing for Creighton's pharmacy program must include the following 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
Human Anatomy (PHA 213)	3
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
Microeconomics (ECO 203)	3
Theology	6
Electives*	12

* At least nine of the elective hours must be taken in areas other than natural sciences and mathematics.

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, including all science and math prerequisites, at Creighton **are not required to take the PCAT.**

Creighton Preference

The Pharmacy Admission Committee has a strong preference for Creighton undergraduate students who complete the majority of their undergraduate coursework at Creighton, including all prerequisites. All Creighton undergraduate students who have achieved a minimum overall grade point average (GPA) of 3.25 at the end of the semester in which the student applies will be guaranteed an interview.



Pre-Occupational Therapy General Requirements

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 occupational therapy professional doctorate in the country. Since 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.

Beginning Fall 2010, admission to the Creighton University School of Pharmacy and Health Professions Doctor of Occupational Therapy Program will require a baccalaureate degree.

Prerequisites

In addition to or in combination with a baccalaureate degree, the courses listed below should be taken by pre-occupational therapy students. Together, the prerequisite courses 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. Questions regarding prerequisites may be directed to the School of Pharmacy and Health Professions Admission Office.

The School of Pharmacy and Health Professions will make the final determination regarding courses satisfying pre-occupational therapy requirements.

Prerequisite Courses	Semester Hours	Quarter Hours
Theology, Philosophy and/or Ethics course (includes religion or logic)	3	4.5
Culture, Ideas and/or Civilizations course (includes history, world religions, American studies, world literature, or women's studies)	3	4.5
Anatomy (If enrolled in a combined anatomy/physiology course, 6 semester hours will be required.)	3	4.5
Psychology	3	4.5
English Composition (may be replaced with a hands-on fine or performing arts course)	3	4.5
Statistics	3	4.5
Medical Terminology (effective Fall 2011 entry term)	1	1.5

Creighton Preference

The Occupational Therapy Admission Committee has a strong preference for Creighton undergraduate students who complete the majority of their undergraduate coursework at Creighton, including all prerequisites. All Creighton undergraduate students who have achieved a minimum overall grade point average (GPA) of 3.25 at the end of the semester in which the student applies will be guaranteed an interview.

Pre-Physical Therapy General Requirements

Preparation for the study of physical therapy consists of at least 90 semester hours. Creighton undergraduates planning to apply to Creighton's Physical Therapy program must complete 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 (BIO 449, BMS 303, or EXS 320)	8 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 Preference

The Physical Therapy Admission Committee has a strong preference for Creighton undergraduate students who complete the majority of their undergraduate coursework at Creighton, including science prerequisites. All Creighton undergraduate students who have achieved a minimum overall grade point average (GPA) of 3.25 at the end of the semester in which the student applies **will be guaranteed an interview.**

For more information

- * Visit our website: <http://spahp.creighton.edu/admission>
- * Contact our Admission Office: (800) 325-2830, ext. 1, or (402) 280-2662.
- * Email us: phaadmis@creighton.edu
- * Write us: Office of Admission, Creighton University School of Pharmacy and Health Professions, 2500 California Plaza, Omaha, NE, 68178.

PROGRAMS OF STUDY

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 259).

Majors and Minors for Business Administration Students

Students in the College of Business Administration may complete an additional field of concentration or minor. 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 BSBA 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.

Categories	Sem. Hours
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

GENERAL BSBA CURRICULUM

I. Foundation Knowledge and Skills (19 or 20 hours)

A. Communications:

ENG 150	Rhetoric and Composition	3 credits
COM 152	Principles of Communication Competence	3 credits
COM 314*	Managerial Communication	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

(One of the following:)

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:

PHL 107	Critical and Historical Introduction to Philosophy	3 credits
PHL 250	Philosophical Foundations for Ethical Understanding	3 credits
BUS 356	Business Ethics	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

C. Strategic Management

BUS 471	Strategic Management	3 credits
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B. 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 from the same region/study groups; 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 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, Chinese)

HIS 103	The Asian World	3 credits
HIS 464	Gender and Sexuality in East Asia	3 credits
HIS 466	Narratives of East Asian Tradition	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 415	20th 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	Postwar Europe	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 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: Arabic)

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 535	Modern Russian Cultural History	3 credits
HIS 548	Russian's Revolutions	3 credits
PLS 303	Politics of Russia and the USSR 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 203	General Chemistry I	3 credits
<i>And</i>		
CHM 204	General Chemistry I Laboratory	1 credit
EVS 113	Introduction to Atmospheric Sciences	3 credits
<i>And</i>		
EVS 114	Introduction to Atmospheric Sciences Lab	1 credits
PHY 107	Introductory Astronomy	3 credits
<i>And</i>		
PHY 108	Astronomy Laboratory	1 credit
PHY 127	Sound and Music	3 credits
<i>And</i>		
PHY 188	Physics in the Everyday World	1 credit
PHY 137	Light and Color	3 credits
<i>And</i>		
PHY 188	Physics in the Everyday World	1 credit
PHY 147	Einstein and Modern Physics	3 credits
<i>And</i>		
PHY 188	Physics in the Everyday World	1 credit
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

E. Social Science Requirement

(One of the following:)

ANT/NAS 101 Introduction to Native American Studies 3 credits

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 Introduction to Sociology: Self and Society 3 credits

F. Humanities Requirement

(Any 3 credit course from ARH, ART, DAN, MUS, or THR) 3 credits

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

BIA 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.

BSBA PRE-HEALTH SCIENCES CURRICULUM

I. Foundation Knowledge and Skills (17 hours)

A. Communications:

ENG 150 Rhetoric and Composition 3 credits

COM 152 Principles of Communication Competence 3 credits

B. Mathematical Sciences:

MTH 201 Applied Mathematics 3 credits

MTH 245 Calculus I 4 credits

BUS 229 Statistical Analysis 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:

PHL 107 Critical and Historical Introduction to Philosophy 3 credits

PHL 250 Philosophical Foundations for Ethical Understanding 3 credits

BUS 356 Business Ethics 3 credits

III. Domestic and International Environment of Business (12 hours)

A. Domestic Environment

BUS 201	Legal Environment of Business	3 credits
ECO 205	Introductory Macroeconomics	3 credits

B. 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

C. Strategic Management

BUS 471	Strategic Management	3 credits
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IV. General Education Electives (9 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. Psychology Requirement

PSY 111	Introductory Psychology	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
BIA 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 (Major) (18 or 21 credits)

VII. Pre-Health Science and Other Requirements (33 credits)

A. Pre-Health Science Requirements

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

B. Freshman Requirement

RSP 103	Ratio Studiorum Program	1 credit
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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 127.

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 to Philosophy	3
HIS 101	Modern Western World	3	PSY 111	Introductory Psychology	3
THL 100	Christianity in Context	3	Natural Science (IVC*)		3-4
Social Science (IVE*)		3	MTH 201	Applied Mathematics	3
(One of the following:)					15-16
MTH 141	Applied Calculus	3			
MTH 245	Applied Calculus	4			
16-17					

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	PHL 250	Philosophical Foundations for Ethical Understanding	3
BUS 229	Statistical Analysis	4	ECO 205	Introductory Macroeconomics	3
COM 152	Principles of Comm. Comp.	3	Non-restrictive Elective (VIIC*)		1-3
ECO 203	Introductory Microeconomics	3	(One of the following:)		
(One of the following:)			BUS 201	Legal Environment of Business	3
BUS 201	Legal Environment of Business	3	BIA 253	Management Info. Systems	3
BIA 253	Management Info. Systems	3	(One of the following:)		
16			ENG 120	World Literature I	3
			ENG 121	World Literature II	3
* Refer to General Curriculum					16-18

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.

Accounting Major

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.

BUSINESS INTELLIGENCE AND ANALYTICS

Supervised by the Department of Business Intelligence and Analytics

For the degree of Bachelor of Science in Business Administration with Business Intelligence and Analytics 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. Within the BIA concentration, the following tracks are proposed. These tracks will allow students the option of customizing the program of BIA study to better suit their interests and career objectives.

Information Technology Track: 18 Credits

(All of the following:)

BIA 354	Data Base Management	3 credits
BIA 375	Business Application Development	3 credits
BIA 459	Information Systems Analysis and Design	3 credits
BIA 470	Data Communications and Networks	3 credits
Six additional credits in BIA numbered 300 and above		6 credits

Digital Media and Design Track: 18 Credits

(All of the following:)

BIA 354	Data Base Management	3 credits
BIA 375	Business Application Development	3 credits

(One of the following:)

BIA 459	Information Systems Analysis and Design	3 credits
BIA 470	Data Communications and Networks	3 credits

(Nine credits from the following:)

CSC 551	Web Programming	3 credits
CSC 555	Computer Graphics	3 credits
GDE 381	Computer Illustration	3 credits
GDE 382	Web Design	3 credits
GDE 423	Multimedia Design I	3 credits
GDE 425	3D Graphics and Animation	3 credits

ECONOMICS

Supervised by the Department of Economics and Finance

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.

Economics Major for Business Administration Students

1. Economics 303 (taken junior year), 305 (taken junior year), 508.
2. Nine hours of 300, 400 or 500-level economics courses selected with the approval of the major advisor.

Economics Major for Arts and Sciences Students (34 credits)

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.

Concentration major (34 credits): 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. Students majoring in finance can choose from four tracks: Financial Analysis, Financial Planning, Financial Services, or Insurance and Risk Management Track. See the list below for the specific requirements for each track. Substitutions for finance electives may be made only with the approval from the major advisor or Department Chair.

Financial Analysis Track: 21 Credits

(All of the following:)

FIN 325	Investment Analysis	3 credits
FIN 350	Financial Statement Analysis	3 credits
FIN 401	Advanced Managerial Finance	3 credits

(Nine credits from the following:)

ECO 315	Money and the Financial System	3 credits
FIN 366	Finance Internship	3 credits
FIN 425	Security Analysis and Portfolio Management	3 credits
FIN 435	Portfolio Practicum I	3 credits
FIN 436	Portfolio Practicum II	3 credits
FIN 491	The Financial World: A Campus and Travel Course	3 credits
Three credits of Finance electives.		3 credits

(One of the following:)

ACC 313	External Financial Reporting Issues	3 credits
ACC 315	Managerial Accounting for Decision Making	3 credits
ACC 538	International Accounting	3 credits
MBA 701	Accounting Applications Managerial Decision Making	3 credits
MSA 722	Fixed Income and Derivatives I	3 credits
MSA 724	Quantitative Analysis	3 credits

Financial Planning Track: 21 Credits

(All of the following:)

ACC 343	Principles of Taxation	3 credits
FIN 340	Principles of Insurance	3 credits
FIN 353	Personal Financial Planning	3 credits
FIN 325	Investment Analysis	3 credits
FIN 511	Retirement Planning	3 credits
FIN 512	Estate Planning and Taxation	3 credits
Three credits of Finance electives.		3 credits

Financial Services Track: 21 Credits

(All of the following:)

FIN 325	Investment Analysis	3 credits
FIN 353	Personal Financial Planning	3 credits

(One of the following:)

ECO 315	Money and the Financial System	3 credits
FIN 361	Financial Institutions Management	3 credits

(One of the following:)

MKT 333	Consumer and Market Behavior	3 credits
MKT 335	Sales Management	3 credits
MKT 343	Marketing Research	3 credits

Nine credits of finance electives chosen in consultation with major advisor or Department Chair. 9 credits

Insurance and Risk Management Track: 21 units

(All of the following:)

FIN 340	Principles of Insurance	3 credits
FIN 325	Investment Analysis	3 credits
ACC 343	Principles of Taxation	3 credits
FIN 512	Estate Planning and Taxation	3 credits
FIN 513	Life Insurance Financial Planning	3 credits
FIN 514	Planning for Business and Professionals	3 credits

(One of the following:)

FIN 353	Personal Financial Planning	3 credits
FIN 511	Retirement Planning	3 credits
BUS 401	Legal Aspects of Life Insurance	3 credits

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.

International Business Major

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 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.

Marketing Major

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 seven tracks:

Bioscience Entrepreneurship, Business Ethics, General Entrepreneurship, Human Resource Management, Social Entrepreneurship, Military Management (ROTC students only), or the 4-year Pre-law track.

Bioscience Entrepreneurship Track

(All of the following:)

ENT 366	Internship	3 credits
ENT 502	Finance for Entrepreneurial Ventures	3 credits
ENT 518	Bioscience Technology Commercialization	3 credits
ENT 520	Business Planning for Bioscience Ventures	3 credits
MKT 343	Marketing Research	3 credits
	Three credits of Entrepreneurship electives	3 credits

Business Ethics Track (18 credits)

(All of the following:)

ECO 528	Economic Development	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 12 credits from the following:)

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, BIA 354, & 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

BIA 354	Data Base Management	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
JRM 438	Media Ethics	3 credits
JPS 365	Faith and Moral Development	1 credit
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 351	Introduction to Chinese Philosophy	3 credits
PHL 353	Introduction to Buddhism	3 credits
PHL 354	Environmental Ethics	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
PSY 344	Social Psychology	3 credits
SOC 309	The Urban Social System	3 credits
SOC 331	Industry and Society	3 credits
SWK 409	Race & 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.

General Entrepreneurship Track

(All of the following:)

ENT 366	Internship	3 credits
ENT 312	Innovation and Creativity	3 credits
ENT 314	Business Planning for Social Entrepreneurs	3 credits
ENT 502	Finance for Entrepreneurial Ventures	3 credits
MKT 343	Marketing Research	3 credits
Three credits of Entrepreneurship electives		3 credits

Human Resources Management Track (18 credits)

(All of the following:)

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

(Nine credits from the following:)

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 (18 credits: Open only to ROTC students)

(All of the following:)

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	Seminar in Management	3 credits

Pre-Law Track (18 credits)

(All of the following:)

BUS 301	Business Law	3 credits
BUS 321	Mock Trial Lecture	2 credits
BUS 322	Mock Trial Practicum	1 credit

(Twelve credits from the following:)

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
JRM 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 423	Law and Society	3 credits

Electives must be approved by the Marketing and Management Department Chair.

Social Entrepreneurship Track Major

(All of the following:)

ENT 312	Innovation and Creativity	3 credits
ENT 314	Business Planning for Social Entrepreneurs	3 credits
ENT 316	Social Entrepreneurship Incubator	3 credits
ENT 502	Finance for Entrepreneurial Ventures	3 credits
MKT 343	Marketing Research	3 credits
Three credits of Entrepreneurship electives		3 credits

MINORS

Minors offer the opportunity to develop substantial knowledge in areas outside of the major. Eighteen credits of coursework are required to complete a minor. Only 3 credits of transient study will be allowed. Students must achieve a cumulative GPA of 2.00 in courses toward the minor. Arts and Sciences students may not declare a minor until they declare a major. Business Administration students may only declare an Economics Minor.

APPLIED INFORMATION TECHNOLOGY MINOR

Program Description: The Applied Information Technology minor offers the student the opportunity to achieve an understanding of IT concepts, their application, and value creation through the use of technology and information systems. Students will learn about data management, analysis and design of system, data communication concepts, and other related IT topics. This minor is only available to students who are not in the College of Business Administration.

Contact: Chair, Department of Business Intelligence and Analytics

(All of the following:)

BIA 253	Management Information Systems	3 credits
BIA 354	Data Base Management	3 credits
BIA 375	Business Application Development	3 credits
BIA 459	Information Systems Analysis and Design	3 credits
BIA 470	Data Communications and Networks	3 credits
One BIA elective as approved by the advisor		3 credits

BUSINESS ADMINISTRATION MINOR

Program Description: The Business Administration minor offers the student the opportunity to achieve a basic understanding of business. Students will learn about markets, financial statements, organizational behavior, marketing concepts and strategy, and other areas of interest to the student. This minor is only available to students who are not in the College of Business Administration.

Contact: College of Business Associate Dean or Assistant Dean

(All of the following:)

ACC 201	Introduction to Financial Accounting	3 credits
ECO 203	Introductory Microeconomics	3 credits
MGT 301	Managerial Process and Organizational Behavior	3 credits
MKT 319	Principles of Marketing	3 credits

(Two of the following:)

BIA 253	Management Information Systems	3 credits
BUS 201	Legal Environment of Business	3 credits
FIN 353	Personal Financial Planning	3 credits

ECONOMICS MINOR

Program Description: The Economics minor offers the student the opportunity to achieve a basic understanding of the economical fundamentals at work in actions by individuals, firms, and governments. Students will examine resource allocation, income distribution, production, employment, and prices in a market economy.

Contact: Chair, Department of Economics and Finance

(All of the following:)

ECO 203	Introductory Microeconomics	3 credits
ECO 205	Introductory Macroeconomics	3 credits
ECO 303	Intermediate Microeconomics	3 credits
ECO 305	Intermediate Macroeconomics	3 credits
Six credits of 300 and above ECO courses.		6 credits

SOCIAL ENTREPRENEURSHIP MINOR

Program Description: The Social Entrepreneurship minor offers students the ability to organize, create, and manage a venture to make social change. Whereas a business entrepreneur typically measures performance in profit and return, a social entrepreneur assesses success in terms of the impact s/he has on society.

Contact: College of Business Associate Dean or Assistant Dean

(All of the following:)

ENT 312	Innovation and Creativity	3 credits
ENT 314	Business Planning for Social Entrepreneurs	3 credits
ENT 316	Social Entrepreneurship Incubator	3 credits
ENT 502	Finance for Entrepreneurial Ventures	3 credits
MKT 319	Principles of Marketing	3 credits
	Three credits of Entrepreneurship elective	3 credits

BIOSCIENCE ENTREPRENEURSHIP MINOR

Program Description: The Bioscience Entrepreneurship minor offers the student the opportunity to achieve a basic understanding of business functions as they relate to entrepreneurship in the bioscience field. Students will learn about business planning, intellectual property, law, regulation, relevant research, current issues marketing, finance, funding sources such as grants and venture capital, presentation skills, and other areas of interest to the student. This major is only available to students who are not in the College of Business Administration.

Contact: College of Business Associate Dean or Assistant Dean

(All of the following:)

ENT 366	Internship	3 credits
ENT 502	Finance for Entrepreneurial Ventures	3 credits
ENT 518	Bioscience Technology Commercialization	3 credits
ENT 520	Business Planning for Bioscience Ventures	3 credits
MKT 319	Principles of Marketing	3 credits
	Three credits of Entrepreneurship elective	3 credits

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.

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
RSP 103	Ratio Studiorum Program	1	ACC 201	Intro to Financial Accounting	3
MTH 141	Applied Calculus	3	HIS 101	Modern Western World	3
THL 100	Christianity in Context	3	MTH 201	Applied Mathematics	3
PSY 111	Introductory Psychology	3	PHL 107	Critical and Historical Intro to Philosophy	3
Social Science (IVE*)		3			16
		16			

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	BIA 253	Management Info. Systems	3
BUS 229	Statistical Analysis	4	BUS 201	Legal Environment of Business	3
COM 152	Principles of Comm. Comp.	3	ECO 205	Introductory Macroeconomics	3
ECO 203	Introductory Microeconomics	3	PHL 250	Philosophical Foundations for Ethical Understanding	3
Scriptural Theology (200 level or above)**		3	Non-restrictive Elective (VIIC*)		3
		16			
			(One of the following:)		
			ENG 120	World Literature I	3
			ENG 121	World Literature II	3
					18

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 (IIBB *elective)		3
MGT 301	Managerial Process and Organizational Behavior	3	Business Elective (VIIB*)		3
			Business Elective (VIIB*)		3
					15
(One of the following:)					
COM 314	Managerial Communications	3	* Refer to General Curriculum		
ENG 251	Advanced Composition	3	** Except THL 250		
		15			

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.

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, 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.

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
BIA 253	Management Information Systems	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
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.

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.

Certification of Completion of Bioscience Entrepreneurship Program

BUS 366	Business Internships	3 credits
ENT 518	Bioscience Technology Commercialization	3 credits
ENT 520	Business Planning for Bioscience Ventures	3 credits

GRADUATE STUDY

Master of Business Administration

The College of Business offers, through the Graduate School, an evening program designed to provide a general management education that focuses on developing values-based leaders. The M.B.A. curriculum allows graduate students to customize their classes to best fit their skills, competencies, and career goals. The M.B.A. program features:

- Tailored programs of study developed for students' particular academic strengths and business experiences—designed to prepare them for intended career path;
- Advanced courses for students with extensive business backgrounds;
- Concentrations in key business areas such as investments, information technology management, accounting, and leadership;
- Professional classes in cutting-edge business skills taught by leading business practitioners.

The M.B.A. Curriculum consists of 33 credit hours. Applicants with an undergraduate degree in any discipline can pursue the M.B.A. degree

The College of Business, the Graduate School, the School of Medicine, the School of Pharmacy and Health Professions, and the School of Law offer combined Doctor of Medicine/ M.B.A., M.B.A./Doctor of Pharmacy, M.B.A./Juris Doctor, M.B.A./Master of Science in Bioscience Management, MBA/Master of Science in Negotiation and Dispute Resolution, and M.B.A./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, the School of Medicine, the Graduate School, the School of Pharmacy and Health Professions, the Werner Institute, and the School of Law.

Master of Science in Information Technology Management

The College of Business offers, through the Graduate School, a Master of Science in Information Technology Management degree. The M.S.-I.T.M. degree provides a creative synergy between technology and management and is designed to meet the demands of a constantly evolving business. The M.S.-I.T.M. curriculum consists of 33 credit hours beyond the prerequisite courses and is available both on campus in the evenings and online. Applicants with an undergraduate degree in any discipline can pursue the M.S.-I.T.M. degree.

The College of Business offers a combined Master of Business Administration/Master of Science in Information Technology Management dual degree program. This combined evening 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/Juris Doctor degree with an emphasis in Digital Business is offered by the College of Business 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.

Master of Security and Portfolio Management

The College of Business offers, through the Graduate School, both an evening and online 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)[®] 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. The M.S.A.P.M. curriculum consists of 30 credit hours beyond the prerequisite courses in accounting, economics, finance, and statistics. A combined Master of Business Administration/M.S.A.P.M. evening program consisting of 48 credit hours is also available.

Applicants with an undergraduate degree in any discipline can pursue the M.B.A./M.S.A.P.M. degree. Individuals with strong analytical skills are especially encouraged to apply.

***CFA, CFA Program and Body of Knowledge are trademarks owned by the CFA Institute.**



PROGRAMS OF STUDY

SCHOOL OF NURSING

The School of Nursing offers two tracks for undergraduate study leading to a Bachelor of Science in Nursing (BSN) degree: the Traditional Curriculum for qualified high school graduates and college transfer students and the Accelerated Nursing Curriculum (ANC) for qualified persons with non-nursing baccalaureate or higher degrees. The Traditional and the ANC curriculums are also offered on the satellite campus in Hastings, Nebraska. Selected courses in both tracks are delivered through distance learning between Omaha and Hastings.

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 in the Traditional and ANC curriculums, students are eligible to take the Registered Nurse (RN) licensure examination (NCLEX-RN).

Complete information for all programs can be obtained by contacting the School of Nursing's Office of Student Affairs at 402.280.2067.

STATEMENT OF GOALS

The School of Nursing provides opportunities and guidance for students to master the knowledge and skill sets 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; clinical reasoning and clinical judgment skills; sensitivity to the 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, skills, and values gained in the humanities, basic sciences, and nursing.

The Goals of the School of Nursing are to:

1. Support development of caring professionals who are culturally sensitive and who respect the uniqueness and dignity of the client;
2. Provide a value-centered educational environment conducive to meeting learning needs of diverse student populations;
3. Promote critical thinking, professional competence, and accountability for the management of care to improve health outcomes;
4. Foster a professional commitment for life-long learning and scientifically based practice.
5. Promote a disposition toward service to others and engaged civic responsibility.
6. Support the ability to communicate professionally and therapeutically using diverse modalities.

STATEMENT OF OBJECTIVES

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 arts and humanities as the basis for managing the care of individuals, families, groups, and communities and populations from diverse cultures. Collaboration among health disciplines in conjunction with clients enhances the delivery of safe health care as well as achievement of quality, cost effective outcomes. Students are prepared 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 curricula provides a foundation for advanced study at the graduate level.

Completion of any of the two undergraduate curricula prepares students to:

1. Incorporate into professional practice respect for each person's dignity, worth and spiritual uniqueness;
2. Synthesize knowledge from nursing and other health disciplines in using evidence-based practice to manage health care of diverse clients;
3. Demonstrate critical thinking skills in reasoning, analysis, research or decision-making relevant to the discipline of nursing;
4. Integrate therapeutic and professional communication strategies to improve outcomes;
5. Manage resources to achieve optimal clinical, quality and cost outcomes for diverse clients;
6. Incorporate self-awareness and values consciousness into a process of personal and professional development;
7. Integrate professional, legal and ethical standards into nursing practice. (Revised 4/25/08)

TRADITIONAL NURSING

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 curriculum in Nursing. During the freshman year, a student in the Traditional curriculum is enrolled in the Ratio Studiorum Program (RSP) course, a nursing seminar course, as well as 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 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 students are enrolled in nursing practicum courses focusing on outcomes-oriented, evidence-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 occur 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 cooperating agencies.

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 (BSN) 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 or SAT Verbal score of 500 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 Math SAT less than 450) may be required to enroll in MTH 139 Precalculus or MTH 201 Applied Mathematics and complete it with a "C" grade 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 Assistant 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 on academic credentials and applications materials.
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 their ability to meet these requirements.

Advanced Placement and Credit

The policies of the College of Arts & 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 insuring access to placement in clinical settings.

1. Completion of immunizations required of all Creighton University Health Sciences students
2. Background investigations of all current and fully 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. Current certification in Basic Life Support (BLS). Either Red Cross-"Basic Life Support for Professional Rescuer" or American Heart Association "Health Care Provider" 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 BSN degree; students do not receive a BA or BS 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 Assistant Dean of Student Affairs in the School of Nursing for appropriate consultation and referral.

Requirements for Graduation

A candidate for a BSN 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 GPA 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. A grade of "C" must be earned in all required nursing courses and nursing support courses.

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 assistance from the School of Nursing's Academic Success Coordinator, Counseling Center, and/or Student Support Services during the remainder of the fall semester.
3. Freshman students who do not attain a 2.2 GPA at midterm in the fall semester are required to register for RSP 130 during the spring semester. If the final fall semester GPA is 2.2 or higher, the scheduled RSP 130 may be dropped. The student is still encouraged to seek academic assistance from the Academic Success Coordinator, Counseling Center, or Student Support Services.
4. Any freshman whose cumulative GPA is not at least 1.75 at the end of the freshman year may be dropped for poor scholarship.
5. 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.

B. Traditional Baccalaureate Curriculum Plan- Omaha and Hastings Campuses

1. Core Curriculum Categories Total = 57 semester hours. General Education courses fall into six categories. Acceptable courses are identified for each category. The School of Nursing follows a modified version of the University's Core Curriculum established by the College of Arts and Sciences.
2. Entering freshman students to the Creighton University on the Hastings campus follow a modified version of the Core Curriculum and take all core courses at Hastings College.
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, apply to all SON 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 (Three credits required from the following:)

THL 100 Christianity in Context

Scripture (Three credits required from the following:)

THL 201	Reading the Old Testament
THL 202	Creation and the Environment in the Bible
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 (Three credits required from the following:)

PHL 250	Philosophical Foundations for Ethical Understanding
THL 250	Theological Foundations for Ethical Understanding

Applied Ethics (Three credits required from the following:)

NUR 474	Applied Nursing Ethics
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CORE CATEGORY B: Cultures, Ideas and Civilizations - 12 hours

History (Three credits required from the following:)

HIS 101	The Modern Western World
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Philosophy (Three credits required from the following:)

PHL 107	Critical and Historical Introduction to Philosophy
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World Literature I (Three credits required from the following:)

ENG 120	World Literature I
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World Literature II (Three credits required from the following:)

ENG 121	World Literature II
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CORE CATEGORY C: Natural Science - 19 hours*

Basic Human Anatomy (Four credits required from the following:)

BMS 111	Basic Human Anatomy
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Physiology (Four credits required from the following:)

BMS 303	Physiology
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General Chemistry (Three credits required from the following:)

CHM 111	Fundamentals of General Chemistry
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Biological Chemistry (Four credits required from the following:)

+CHM 112	Fundamentals of Biological Chemistry
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And

CHM 113	Fundamentals of Chemistry Lab
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Microbiology (Four credits required from the following:)

MIC 141	Microbiology
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* 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 (Three credits required from the following:)

PSY 111 Introductory Psychology

Social Sciences (Three credits required from the following:)

SOC 101 Introduction to Sociology: Self and Society

ANT 111 Introduction to Anthropology

SOC 102 Introduction to Sociology: Social Problems

CORE CATEGORY E: Skills - 5 hours (Including but not limited to):

COM 152	Civic Engagement through Public Communication	THR 121	Oral Interpretation of Literature
ENG 150	Rhetoric and Composition	THR 131	Acting I
MTH 139	Precalculus	THR 153	Stagecraft I
MTH 137	Trigonometry	THR 271	Voice Class
MTH 201	Applied Mathematics	ARA 101/102	Elementary Modern Arabic I and II
MTH 245	Calculus I	ARA 115	Elementary Modern Standard Arabic
MTH 363	Elementary Probability and Statistics	ARA 201	Intermediate Modern Standard Arabic I
ANT/SOC 314	Statistics for the Social Sciences	CHN 101/102	Beginning Chinese I and II
NUR 491	Spanish for Health Care	CHN 201	Intermediate Chinese I
PSY 211	Introductory Statistics	CHN 202	Intermediate Chinese II
RSP 120	Strategies for Academic Success	FRN 101/102	Beginning French I and II
RSP 130	Strategies for Student Success	FRN 115	Intensive Beginning French
ART 104	Elementary School Art	FRN 201	Intermediate French I
ART 105	Art Fundamentals	FRN 202	Intermediate French II
ART 153	3-D Foundations	GER 101/102	Beginning German I and II
ART 154	Clay Modeling I	GER 115	Intensive Beginning German
ART 155	Welded Metal Sculpture I	GER 201	Intermediate German I
ART 156	Bronze Casting I	GER 202	Intermediate German II
ART 157	Stone Carving I	GRK 101/102	Beginning Greek I and II
ART 211	Introductory Ceramics	GRK 115	Intensive Beginning Greek
ART 253	Sculpture II	GRK 201	Intermediate Greek
ART 271	Photography Studio I	HEB 101/102	Intro to Classical Hebrew I and II
ART 390	Sculptural Glass Casting	ITA 101/102	Beginning Italian I and II
DAN 101	Introduction to the Dance	ITA 201	Intermediate Italian I
DAN 110	Dance Studies I	ITA 202	Intermediate Italian II
DAN 111	Dance Studies II	JPN 101/102	Beginning Japanese I and II
DAN 121	Modern Dance	JPN 201	Intermediate Japanese I
DAN 131	Jazz/Tap	JPN 202	Intermediate Japanese II
DAN 153	Stagecraft	LAT 101/102	Beginning Latin I and II
MUS 208	Jazz Ensemble I	LAT 115	Intensive Beginning Latin
MUS 209	Gospel Choir I	LAT 201	Intermediate Latin
MUS 212	University Chorus I	RUS 101/102	Beginning Russian I and II
MUS 218	Wind Ensemble I	RUS 201	Intermediate Russian I
MUS 219	Javanese Gamelan I	SPN 115	Intensive Beginning Spanish
MUS 220	University Orchestra I	SPN 201	Intermediate Spanish I
MUS 271	Voice Class	SPN 202	Intermediate Spanish II
MUS 313	Chamber Choir		

(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).

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	BMS 303 Physiology	4
CHM 111 Fundamentals of General Chemistry	3	CHM 112/113 Fundamentals of Biological Chemistry/Lab	4
RSP 102 Introduction to the Culture of College Life (Nursing Students)	1	ENG 120 World Literature I	3
PSY 111 Introductory Psychology	3	HIS 101 The Modern Western World	3
SOC 101 or ANT 111 or SOC 102	3	NUR 116 Opportunities in Professional Nursing	1
Skills (ENG 150 required if ENG ACT score below 22)	<u>3</u>	THL 100 Christianity in Context	<u>3</u>
	17		18

SOPHOMORE YEAR (33 Semester Hours)

<i>Fall Semester</i>	<i>Sem. Hrs.</i>	<i>Spring Semester</i>	<i>Sem. Hrs.</i>
MIC 141 Microbiology	4	NUR 224 Health Assessment Across the Lifespan	2
NUR 223 Nutrition	2	NUR 226 Health Assessment Practicum	1
NUR 228 Lifespan Development	3	NUR 252 Human Pathophysiology	4
ENG 121 World Literature II	3	THL 200 Level (Scripture)	3
PHL 107 Critical and Historical Introduction to Philosophy	3	THL/PHL 250 Ethics	3
Elective	<u>3</u>	Skills Course	<u>2</u>
	18		15

JUNIOR YEAR (33 Semester Hours)

<i>Fall Semester</i>	<i>Sem. Hrs.</i>	<i>Spring Semester</i>	<i>Sem. Hrs.</i>
NUR 341 Nursing Management of Pharmacotherapy	3	NUR 353 Principles of Population-based Health Care	3
NUR 351 Care Management Concepts for Health Promotion, Protection, Maintenance, and Restoration	5	NUR 354 Power, Politics, and Policy in Health Care	2
NUR 352 Care Mgt. Practicum I	4	NUR 371 Care Mgt. Processes for Episodic and Chronic Health Alterations I	5
NUR 361 Informatics in Health Care	2	NUR 372 Care Mgt. Practicum II	<u>5</u>
NUR 362 Informatics in Health Care Practicum	1		15
NUR 377 Research for Health Profess.	<u>3</u>		
	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.

ACCELERATED NURSING CURRICULUM (ANC)

The Accelerated Curriculum in Nursing was initiated at Creighton University in May of 1975. It is a one-calendar-year curriculum for individuals who hold non-nursing baccalaureate or higher degrees. Before admission to the Accelerated curriculum, an individual must have completed the courses in the social/behavioral and natural sciences (or acceptable substitutes) required in the traditional curriculum. A Bachelor of Science in Nursing (BSN) degree is awarded at graduation.

Admission

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 on academic credentials and application materials.
 - a. A baccalaureate or higher degree in another discipline from an accredited college or university.
 - b. Evidence of academic achievement of **at least** 3.0 grade point average or higher on a 4.0 scale.
 - c. Completion of prerequisite courses with a minimum of “C” grade or above.
 - d. Evidence of potential and motivation for nursing.
 - e. Evidence of prior work success and/or ability to handle a rigorous academic schedule. This includes providing to the School of Nursing transcripts from all colleges attended.
 - f. Three recommendations addressing academic and personal attributes; two from a college/university instructor and one from an employer.
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 their ability to meet these requirements.

Prerequisite Requirements

The following courses and other requirements must be completed prior to beginning the Accelerated (Nursing) Curriculum. Applicants may be conditionally accepted prior to completion of designated prerequisites if their plan of study indicates that all courses 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. General Education (36 semester hours). 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 semester hours)
 - B. **General Sociology or Cultural Anthropology** (3 semester hours)
 - C. **Developmental Psychology** (3 semester hours). This course should cover the lifespan (from infancy through old age).
 - D. **Bioethics or Ethics** (3 semester hours). 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** (2-3 semester hours)
4. **Physical and Biological Sciences** (19-20 semester hours)
 - A. **Microbiology** (4 semester hours)
 - B. **Inorganic/General Chemistry** (4 semester hours)
 - C. **Organic/Biological Chemistry** (4 semester hours)
 - D. **Anatomy and Physiology** (8 semester hours - this may be two combined courses or a human anatomy course and a mammalian or vertebrate physiology course.)
 - E. 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 (equivalent to 27 quarter hrs). If physical and biological science credits do not total 18, it will be necessary to take additional science credits.
5. Science credits earned over 10 years ago will be individually evaluated.

Other Requirements

1. Certain conditions of enrollment must be met to insure access to placement in clinical settings.
 - a. Completion of immunizations required of all Creighton University Health Sciences students
 - b. Background investigations of all current and fully accepted students.
 - c. Drug testing consistent with clinical agency contracts.
 - d. 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.
 - e. Completion of certification in Basic Life Support (BLS). Either Red Cross-"Basic Life Support for Professional Rescuer" or American Heart Association "Health Care Provider" are accepted. Courses should be labeled "professional level" and include instruction of the Automated External Defibrillator (AED).
2. Computer Literacy is not required as a prerequisite course to the program. However, students should be computer proficient since some assignments require this skill.
3. This school is authorized under Federal law to enroll nonimmigrant alien students. The ability to speak and write correct grammatical English is imperative. All international applicants whose first language is not English or who have obtained a high school diploma or degree outside of the United States must present a TOEFL (Test of English as a Foreign Language) score of 600 on the Paper-Based Test (PBT) or 100 on the Internet-Based (IBT). Scores over 2 years old will not be accepted. The School of Nursing reserves the right to require students to re-take the exam. It is also at the discretion of the School of Nursing as to whether a TOEFL score is required of applicants who have earned a college degree from a United States university. Foreign students may enroll in Creighton University's English Language Program on a full- or part-time basis in order to improve their English skills.

ACCELERATED NURSING CURRICULUM (58 CREDITS)

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	<u>3 credits</u>
		19 credits

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	<u>2 credits</u>
		20 credits

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	<u>6 credits</u>
		19 credits

PROGRAMS OF STUDY

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 98 for Arts and Sciences majors, and page 227 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 87 and 223 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 and a Bachelor of Science degree leading to a major in Health Administration and Policy. 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 Communication Studies, Creative Writing and Health Administration and Policy which can be completed in the accelerated format. For a listing of the major requirements for the Associate in Arts Degree please consult page 268.

CORE CATEGORY A-D

Core A-D follows the College of Arts and Science Core (see page 88).

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

ART 104	Elementary School Art (EDU Majors)	DAN 131	Classical Ballet Studio, Basic I
ART 105	Art Fundamentals	DAN 153	Stagecraft
ART 153	Sculpture I	MUS 208	Jazz Ensemble I
ART 154	Clay Modeling I	MUS 209	Gospel Choir I
ART 155	Welded Metal Sculpture I	MUS 212	University Chorus I
ART 156	Bronze Casting I	MUS 218	Wind Ensemble I
ART 157	Stone Carving I	MUS 219	Javanese Gamelan I
ART 211	Introductory Ceramics	MUS 220	University Orchestra I
ART 253	Sculpture II	MUS 271	Voice Class
ART 271	Photography Studio I	MUS 313	Chamber Choir
ART 390	Sculptural Glass Casting	THR 121	Oral Interpretation of Literature
DAN 101	Introduction to the Dance	THR 131	Beginning Acting I
DAN 110/111	Dance Studies I/II	THR 153	Stagecraft I
DAN 121	Basic Modern Dance I	THR 271	Voice Class

Languages - 6 credit credits in one language area at 100 level or 3 credits of International/Global Studies

(See pages 89-99 for lists of Core courses.)

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: Organizational Communication Track: 36 Credits

The following courses are required.

(All of the following:)

COM 200	Communication Practices	3 credits
COM 300	Communication Research Methods	3 credits
COM 359	Rhetoric and Public Culture	3 credits
COM 360	Organizational Communication	3 credits
COM 361	Interpersonal Communication	3 credits
COM 460	Historical and Contemporary Perspectives on Organizational Communication	3 credits
COM 463	Communication Consulting	3 credits
COM 490	Communication and Community	3 credits

Twelve (12) elective hours in COM courses numbered 300-level and above. 12 credits

Certificate Program in Communication Studies (24 credits)

A Certificate of Communication Studies will be awarded to the students who successfully complete a total of 24 semester hours from the following courses:

COM 200	Communication Practices	3 credits
COM 300	Communication Research Methods	3 credits
COM 359	Rhetoric and Public Culture	3 credits
COM 360	Organizational Communication	3 credits
COM 361	Interpersonal Communication	3 credits

Nine (9) elective hours in COM courses numbered 300-level and above 9 credits

Communication Studies Minor (18 credits)

(All of the following:)

COM 359	Rhetoric and Public Culture	3 credits
COM 360	Organizational Communication	3 credits
COM 361	Interpersonal Communication	3 credits

Nine (9) 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.

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 133 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 either ENG 202 Entering a Professional Dialogue or ENG 201 Interpreting Texts 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.

English Minor

(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

ACCELERATED PROGRAMS IN HEALTH ADMINISTRATION AND POLICY

Specific Requirements for Admission to the Health Administration and Policy Major:

Successful completion of HAP 200 with a grade of C or better and sophomore standing.

B. S., Major in Health Administration and Policy: 45 Credits

(All of the following:)

Health Issues Core

HAP 200	Introduction to Healthcare Administration	3 credits
HAP 310	Health Finance and Budgeting	3 credits
HAP 315	Healthcare, Society and Culture	3 credits
HAP 334	Public Policy and Healthcare	3 credits
HAP 515	Law and Health Systems	3 credits

Methodology and Quantitative Skills

HAP 312	Quantitative Methods in the Social Sciences	3 credits
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Internship

HAP 485	Internship in Health Administration and Policy	3 credits
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Management Core

ACC 201	Introduction to Financial Accounting	3 credits
HAP 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

Ethics

(One of the following:)

HAP 457	Biomedical Ethics	3 credits
HAP 456	Public Health Ethics	3 credits

(Two of the following covering distinctly different management topics*:)

BIA 253	Management and Information Systems	3 credits
COM 320	Leadership: Theories, Styles, and Skills	3 credits
COM 360	Organizational Communication	3 credits
EDP 361	Social Justice in the Dominican Republic**	6 credits
HAP 317	Global Health Issues	3 credits
HAP 350	The Essentials of Public Health	3 credits
HAP 355	Essentials of Epidemiology	3 credits
HAP 390	Health Communication	3 credits
MGT 351	Personnel/Human Resources Management	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.

**taught in the Dominican Republic

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:

HAP 200	Introduction to Health Administration	3 credits
HAP 315	Healthcare, Society and Culture	3 credits
HAP 334	Public Policy and Health Care	3 credits
HAP 390	Health Communication	3 credits
MGT 301	Managerial Process And Organizational Behavior	3 credits
Nine credits chosen from upper-division HAP courses.		9 credits

Health Administration and Policy Minor

(All of the following:)

HAP 200	Introduction to Healthcare Administration	3 credits
HAP 315	Healthcare, Society and Culture	3 credits

(One of the following:)

HAP 334	Public Policy and Healthcare	3 credits
NUR 354	Power, Politics, and Policy in Health Care	3 credits
Three additional course chosen from HAP courses numbered 300 or above.		6 credits

Business Administration Minor (offered in accelerated format)

(All of the following:)

ACC 201	Introduction to Financial Accounting	3 credits
BIA 253	Management Information Systems	3 credits
ECO 203	Introductory Microeconomics	3 credits
MGT 301	Managerial Process and Organizational Behavior	3 credits
MKT 319	Principles of Marketing	3 credits

(Two of the following:)

BUS 201	Legal Environment of Business	3 credits
FIN 353	Personal Financial Planning	3 credits

BACHELOR OF SCIENCE, 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. Students who have completed the associate's degree in dental hygiene at Iowa Western Community College, which is affiliated with the Creighton University School of Dentistry, will be required to complete a minimum of 36 additional hours at Creighton University. Students who have met the above requirements from other institutions must complete a minimum of 48 hours at Creighton University. 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.

Areas of Study	Semester Hours
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>
Total semester hours	128 credits
Core A: Theology, Philosophy, Ethics – 6 hours	
PHL/THL 250 Foundations for Ethical Understanding	3 credits
(One of the following:)	
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
(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 or 121 World Literature I or 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 Introduction to Sociology: Self and Society	3 credits
SOC 102 Introduction to Sociology: 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	2 credits
GDH 232	Oral Hygiene	1 credit
GDS 219	General Pathology	9 credits
GDS 235	Oral Pathology	8 credits
GDD315	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
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 (9 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

Culture/Ideas/Civilization (15 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 91-92)	3 credits

Natural Sciences (14 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

Social/Behavioral Sciences (6 Sem. Hrs.)

PSY 111	Introductory Psychology	3 credits
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(Three credits from one of the following:)

Anthropology/Economics/Political Science/Sociology	3 credits
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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 (ARH, ART, DAN, MUS, THR)	3 credits
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Language Course (ARA, CHN, FRN, GER, HEB, ITA, JPN, LAT, RUS, SPN)	3 credits
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(One of the following:)

MTH 135	College Algebra	3 credits
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MTH 201	Applied Mathematics	3 credits
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Electives (17 Sem. Hrs.)

17 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 475	Critical Care Paramedic Preparatory	2 credits
EMS 479	Special Topics in EMS	1-3 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 (9 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

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 91-92)		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	Introduction to Sociology: 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

(One of the following:)

MTH 135	College Algebra	3 credits
MTH 201	Applied Mathematics	3 credits

Electives (9 Sem. Hrs.)

9-10 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 475	Critical Care Paramedic Preparatory	2 credits
EMS 479	Special Topics in EMS	1-3 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 - 128 Credits

EMS CORE Categories

Theology/Philosophy/Ethics (9 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

Culture/Ideas/Civilization (15 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 91-92)	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
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Skills (10 Sem. Hrs.)

ENG 150	Rhetoric and Composition	3 credits
MTH 245	Calculus I	4 credits

(Three credits of the following:)

Fine and Performing Arts Course (ARH, ART, DAN, MUS, THR)	3 credits
Foreign Language Course (ARA, CHN, FRN, GER, HEB, ITA, JPN, LAT, RUS, SPN)	3 credits

Elective (1 Sem. Hrs.)

1 credit

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 475	Critical Care Paramedic Preparatory	2 credits
EMS 479	Special Topics in EMS	1-3 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.

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 451	Paramedic Certificate-to-Academic Transition II	3-6 credits
EMS 452	Paramedic Certificate-to-Academic Transition III	3-6 credits
EMS 455	Paramedic Clinical Transition	3-6 credits
EMS 456	Paramedic Clinical Transition II	3-6 credits
EMS 457	Paramedic Clinical Transition III	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 223-228 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 89-99. 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	

(One of the following:)

MTH 135	College Algebra	3 credits
MTH 201	Applied Mathematics	3 credits
MTH 245	Calculus I	4 credits

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

Spirituality Major Requirements (25 credits)

One course in Old Testament	3 credits	
One course in New Testament	3 credits	
THL 250	Theological 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
(Two courses from the following:)		
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

Theology Major Requirements (25 credits)

One course in Old Testament	3 credits	
One course in New Testament	3 credits	
THL 250	Theological 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
(Two courses from the following:)		
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 152	Principles of Communication Competence	3 credits
COM 203	Introduction to Communication Research Methods	3 credits
COM 204	Communication Practices	3 credits
COM 359	Rhetoric and Public Culture	3 credits
COM 360	Organizational Communication	3 credits
COM 361	Interpersonal Communication	3 credits
Fifteen hours upper-division COM courses		15 credits

ASSOCIATE IN SCIENCE DEGREES

Computer Science Major (64 credits)

Core Curriculum Requirements		31-32 credits
<i>Major Requirements (24 credits)</i>		
CSC 221	Introduction to Programming	3 credits
CSC 222	Object-Oriented Programming	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
Nine semester hours in 400-level or above CSC courses		9 credits
Electives		8-9 credits

Mathematics Major (64 credits)

Core Curriculum Requirements		31-32 credits
<i>Major Requirements (27 credits)</i>		
MTH 245	Calculus I	4 credits
MTH 246	Calculus II	4 credits
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
Electives		5-6 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 13 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 meet some of the major requirements in the degree programs. (The Certificate in Business Administration includes the introductory courses in Accounting, Business, Business Intelligence and Analytics, Economics, Finance, Management, Marketing.) The certificate programs are:

Atmospheric Sciences	Mathematics
Business Administration	Ministry
Computer Science	Pre-Health Sciences
Communication Studies	Psychology
Creative Writing	Spirituality
Health Administration and Policy	Theology
Liturgy	

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 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 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
BIA 253	Management Information Systems	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
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	Introduction to Programming	3 credits
CSC 222	Object-Oriented Programming	3 credits
CSC 321	Data Structures	3 credits
CSC 414	Computer Organization	3 credits
CSC 421	Algorithm Design and Analysis	3 credits

Three additional 400-level-or-above computer science courses are required.
CSC 121 may be applied to this certificate with department approval.

Certificate Program in Communication Studies (24 credits)

A *Certificate of Organizational Communication* will be awarded to the students who successfully complete a total of 24 semester hours from the following courses:

Required for Admission: 2.25 GPA and COM 152

COM 200	Communication Practices	3 credits
COM 300	Communication Research Methods	3 credits
COM 359	Rhetoric and Public Culture	3 credits
COM 360	Organizational Communication	3 credits
COM 361	Interpersonal Communication	3 credits
Nine additional hours of 300-level or above COM courses		9 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 either ENG 202 Entering a Professional Dialogue or ENG 201 Interpreting Texts 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 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:

HAP 200	Introduction to Health Administration	3 credits
HAP 315	Healthcare, Society and Culture	3 credits
HAP 334	Public Policy and Health Care	3 credits
HAP 390	Health Communication	3 credits
MGT 301	Managerial Process and Organizational Behavior	3 credits
Nine credits chosen from upper-division HAP courses.		9 credits

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 205, 207, 208, 209, 210 or 212	3 credits
One class in Old Testament	THL 201, 202, 203	3 credits
THL 250	Theological Foundations for Ethical Understanding	3 credits
THL 338	Eucharist: Liturgical Theology and Practice	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 (29 credits)

A *Certificate in Mathematics* will be awarded to students who successfully complete the following requirements, (29 semester hours).

MTH 245	Calculus I	4 credits
MTH 246	Calculus II	4 credits
MTH 347	Calculus III	3 credits
MTH 310	Fundamentals of Mathematics	3 credits
MTH 529	Linear Algebra	3 credits

(One of the following:)

MTH 545	Differential Equations	3 credits
MTH 581	Modern Algebra I	3 credits
MTH 591	Analysis I	3 credits
Six additional credits of 500-level MTH course		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 205, 207, 208, 209, 210 or 212)	3 credits
One class in Old Testament	(THL 201, 202, 203)	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 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.*

(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

(Foundational Courses: At least one course, but no more than two, from each of the following three groups totaling fifteen credits:)

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
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

Elective Courses: Students must also take nine additional credits of PSY elective courses. SWK 261 or BIO 571 also count as electives. 9 credits

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 205, 207, 208, 209, 210 or 212)	3 credits
One class in Old Testament	(THL 201, 202, 203)	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 205, 207, 208, 209, 210 or 212)	3 credits
One class in Old Testament	(THL 201, 202, 203)	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 274.

Pre-Dental and Pre-Medical Programs. See page 218.

Pre-Pharmacy Program. See page 219.

Pre-Occupational Therapy Program. See page 220.

Pre-Physical Therapy Program. See page 221.

Teacher Certification

Consult with an advisor in the Department of Education, Room 106 in the Hitchcock Communication Arts Building, for information on certification/endorsement requirements. Telephone (402) 280-2820.

INDEPENDENT STUDY PROGRAM

Director—Dean Jensen

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 \$963 per course, except for NUR 223 (2 credits), which is \$642. Textbook and supplementary course material costs are in addition to tuition. Independent Study Program information is online at <http://www.creighton.edu/isp> or available from 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 Introduction to Anthropology** (3) (CORE D)
Coursewriter: Suzanne Baker, Ph.D.
- ENG 120 World Literature I** (3) (CORE B)
Coursewriter: Mary Longo, 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 103 The Asian World** (3) (CORE B)
P: HIS 101. Coursewriter: William Sherrard, 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. Schwiesow, Ed.S.
- PSY 341 Infant and Child Development** (3)
Coursewriter: Debra L. Schwiesow, Ed.S.
- PSY 375 Marriage and Family Relationships** (3)
Coursewriter: Debra L. Schwiesow, Ed.S.
- THL 100 Christianity in Context** (3) (CORE A)
Coursewriter and Instructor: Sr. Joan L. Mueller, OSC, Ph.D.
- THL 209 Life of Jesus** (3) (CORE A)
Coursewriter: Bruce J. Malina, Ph.D.
- THL 325 Catholicism: Creed and Question** (3) (CORE A)
P: 200-level Scripture course. Coursewriter/Instructor: Sr. Joan L. Mueller, OSC, Ph.D.
- THL 335 Jesus Christ: Yesterday and Today** (3) (CORE A)
P: 200-level Scrip. course; Jr. stdg. Coursewriter/Instructor: Sr. Joan L. Mueller, OSC, Ph.D.

* For course descriptions please consult the *Courses of Instruction* section beginning on page 284.

NONCREDIT OFFERINGS (CPD)

The Center for Professional Development, a division of University College, provides a variety of non-credit certificate training programs for the Omaha area. For more information call 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 three 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 for Reading Development - Creighton University/CPD sponsors the Institute for Reading Development to provide reading improvement courses in Omaha, Lincoln, and Sioux City for pre-schoolers through adults. Learning to read, phonetics, reading comprehension and speed-reading are taught at age-appropriate reading levels each summer.

CERTIFICATES FOR MINISTRY

Credit Ministry Programs

Certificate/Diploma Program in Liturgy, Ministry, Spirituality, or Theology, in Omaha and Des Moines, Iowa. These 25-credit programs which may also be taken for audit, were co-developed in 1985 with the Offices of the Archdiocese of Omaha. 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 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. Contact the Office of Religious Formation (554-8493) or University College (280-2424) 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.

Tuition in the *Accelerated* Creighton program is one-half of the regular per credit hour University College rate.

SPECIAL TUITION RATES FOR TEACHERS, SCHOOL ADMINISTRATORS, PERSONS IN MINISTRY, PARENTS, VETERANS, 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.

Yellow Ribbon Program

Creighton University is proud to participate in the Yellow Ribbon Program, Post 9/11 GI Bill. Our commitment, combined with the matching funds provided by the Department of Veterans Affairs, will allow 150 veterans to pursue undergraduate higher education through University College at little or no cost.

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 51-83 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) 280-2425.

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 Human Resource office 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.

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.

Osher Reentry Scholarship

Osher Reentry Scholarships are awarded on a competitive basis to a limited number of nontraditional undergraduate students who have demonstrated the promise of achieving academic success. Applicants must have a 5-year interruption from their college studies and demonstrate the potential for academic career success. This annual award is applied equally to the fall and spring semesters. For a complete list of criteria and an application, visit <http://www2.creighton.edu/adultdegrees/tuitionfeesfinancialaid/scholarshipsgrants/index.php>.

Richard Pearlman Memorial Scholarship

This award is given to certificate students enrolled in the Emergency Medical Services paramedic 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.

EMS Alumni Scholarship

This award is given to ASEMS and BSEMS degree-seeking students during the year in which they are enrolled in the paramedic program. Students must demonstrate financial need based on the information supplied on the FAFSA, have a minimum 2.50 GPA and be a US citizen or permanent resident. This award is applied equally to the fall and spring semesters.

School of Pharmacy and Health Professions Scholarship

This award is given to ASEMS and BSEMS degree-seeking students during the year in which they are enrolled in the paramedic program. Students must demonstrate financial need based on the information supplied on the FAFSA, have a minimum 2.50 GPA and be a US citizen or permanent resident. This award is applied equally to the fall and spring semesters.

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.

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 a 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, Business Intelligence and Analytics, 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 2012 Summer Semester to the Second Semester of 2013. 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.

BIO 523	Environmental Toxicology (3) II 2011-12 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.
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.
2010-11	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, Purcell, Raval; Associate Professors Flinn, Lewis, Shimerda (Chair), Instructor Eibes.

Requirements for Accounting as the Field of Concentration – see page 230.

- 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. Although the department will try to help a student obtain an accounting internship, the responsibility for finding the internship lies with the student. The course is graded satisfactory/unsatisfactory and only 3 hours of internship credit may be used to satisfy graduation requirements. Enrollment is limited. **P: Second semester Jr. or higher stdg; I.C.**
- ACC 377 Accounting Information Systems (3) I, II**
 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, BIA 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; Sr. stdg.**
- ACC 491 The Financial and Accounting World: A Campus and Travel Course (3) W**
 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) S, 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 liabilities, dilutive securities, long-term investment in bonds, and accounting changes. **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, Jr. stdg.**
- 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. Additional prerequisites may be added depending on the topic of the seminar and the seminar instructor. **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 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 101.

- 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 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 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 North 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 411 Politics of Africa (3) I, AY** (Same as BKS 411, PLS 411)
Introduction to politics of sub-Saharan Africa. Covers traditional African cultures, societies and polities; independence movements; and post-colonial politics. Discusses political parties, military interventionism, ethnic conflict, development policy and democratic reform. **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 102.

- AMS 102 Introduction to Sociology: Social Problems** (3) I (Same as SOC 102)
Social problems in contemporary American society. Focus on public issues, controversies, and policy alternatives.
- 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 301 Social and Cultural Theory** (3) I (Same as ANT 301, 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.**
- AMS 307 Introduction to American Studies** (3) (Same as HIS 307)
This course provides an introduction to the field of American Studies, which seeks to understand the complex reality of "the American experience" in all its variety. Topics include the history of American Studies as a discipline as well as its methodologies, central concepts, and emerging questions. Students will examine a broad topic from multiple disciplinary perspectives, with an emphasis on developing and employing the methodological tools common to contemporary American Studies scholarship. The topic/content areas will be selected by the instructor, based upon his/her area of scholarly expertise. **P: So. stdg.**
- AMS 308 Theories and Methods in American Studies** (3) (Same as HIS 308)
This course introduces students to prevailing theories and methodologies in American Studies. Students will examine in a critical fashion interdisciplinary studies of the meaning and significance of "Americanness" in historical, cross-cultural, and even trans-national contexts. The complex relationships between ethnic, religious, racial, and ideological groups in American society will receive critical attention. **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 316 (209) Qualitative Methods in the Social Sciences** (3) II (Same as ANT 316, SOC 316, NAS 316)
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.
- 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 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.**
- 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 331 Indians of the Great Plains (3) II, ONY (Same as ANT 331, 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.**
- 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)**
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 340 Native American Cultures and Health (3) I (Same as ANT 340, 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 SPAHP students enrolled in the elective course "Learning through Reflective Service: Native American Experience." (PHA 341). Enrolled undergraduate students will engage with Omaha-based health agencies and attend group reflection sessions.
- AMS 341 American Cultural Minorities (3) I (Same as 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 343 Peoples and Cultures of Native North America (3) I, ENY (Same as ANT 343, 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.**
- 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 353 Jazz in American Culture** (3) OD (Same as BKS 353, 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 355 Environment and Society: Sociological Perspectives** (3) II (Same as ANT 355, 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.**
- AMS 358 Critical Issues in the Study of Native American Religions** (3) II, ONY (Same as ANT 358, 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.
- 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 360 Gender, Society and Culture** (3) II (Same as ANT 360, 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.**
- 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 369 American Popular Music** (3) OD (Same as MUS 369)
This is a lecture/demonstration course that will trace the birth and evolution of popular music in America from its roots in the nineteenth century, jazz, blues, country and rock music through the artists and songs that define the genre.
- 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 ARH 384)
A survey of the most important works of major architects from the Colonial period to the present. **P: So. stdg.**

- AMS 385(368) Survey of American Art** (3) AY (Same as ARH 385)
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 387 Modern Hispanic Art History** (3) (Same as ARH 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 389 The Roaring Twenties** (3) OD (Same as ENG 389)
Representative American authors and works from the 1920's. **P: Jr. stdg.**
- AMS 391 Film Music** (3) (Same as MUS 391)
The course will survey the important and emerging art genre of film music. The course will include music scores and composers of the past and present combining historical, cultural and social themes in film as enhanced through the music. Some study will include the language of music, in particular, melody, harmony, rhythm, tone color and the composer's use of these elements in creation music for the film. The course will deal primarily with American film but may include selected films of other countries as well.
- 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 411 Social Inequality and Stratification** (3) II, ONY (Same as ANT 411, SOC 411)
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.**
- AMS 415 Thoreau's Walden: Fiction, Poetry, Truth** (3) (Same as PHL 415)
This course is a philosophical exploration of the relations among fiction, poetry and truth, in the context of reading one of the greatest classics of American literature, Henry David Thoreau's Walden. **P: PHL 107 or So. 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 449 American Colonies** (3) AY (Same as HIS 449)
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.**

- 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 ARH 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 ARH 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 Includes Northwest, Southwest, and Plains cultures.
- AMS 471 Discourse of the American Family** (3) (Same as COM 471)
With American culture, the concept of family has taken on "god term" status. Rather than studying communication within families, the course examines how the social construction of family (communication about family) has changed over time and examine the discourse, myths, problems/limitations, and power with how family has been culturally constructed.
- 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 570(470) Introduction to Geographic Information Systems** (4) II, ENY (Same as ANT 570, EVS 570, SOC 570)
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. **P: SOC 312 or IC.**
- AMS 585 American Studies Internship** (1-3) 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, Media and Computing, 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 199.

- 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: Human and Cultural Diversity** (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 112 Introduction to Anthropology: Culture, Energy and Sustainability** (3)
This course examines cultural variation in the use of energy. It looks at human kind as creative biological, spiritual, and social beings who engage in adaptation strategies to exploit energy forms. These adaptations are explored in terms of their successes and how they can contribute to sustainability.
- 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 AMS 301, 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 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 312(212) Quantitative Methods in the Social Sciences** (3) I, II (Same as HAP 312, SOC 312)
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 314(214) Statistics for the Social Sciences** (4) I, II (Same as HAP 314, SOC 314)
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. **CO: SOC 312.**
- ANT 315 (215) Healthcare, Society and Culture** (3) I (Same as HAP 315, SOC 315)
Study of the relationship between society and healthcare systems. The sociology of healthcare organization, including patient-practitioner relationships, concepts of health and disease, healthcare personnel, and systems of delivery. **P: So. stdg.**

- ANT 316 (209) Qualitative Methods in the Social Sciences** (3) II (Same as AMS 316, SOC 316, NAS 316)
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 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 is the topic of health and well-being in developing countries. **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 331 Indians of the Great Plains** (3) II, ONY (Same as AMS 331, 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 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.**
- ANT 335 Technology and Human Values** (3) II, ONY (Same as SOC 335)
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.**
- ANT 340 Native American Cultures and Health** (3) I (Same as AMS 340, 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 SPAHP students enrolled in the elective course "Learning through Reflective Service: Native American Experience." (PHA 341). Enrolled undergraduate students will engage with Omaha-based health agencies and attend group reflection sessions. **P: Soph. stdg.**
- ANT 341 American Cultural Minorities** (3) I (Same as 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) II, ENY (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 AMS 343, 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 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, ideological adaptations, and the nature of culture change for indigenous peoples and subsequent immigrants to the regions of the Americas where linguistically Spanish and Portuguese now predominate. **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) II, ONY** (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 AMS 355, 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 AMS 358, 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. **P: Soph. stdg.**
- ANT 360 Gender, Society and Culture (3) II** (Same as AMS 360, 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 363 Medical Anthropology (3) I, II**
 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. **P: Soph. stdg.**
- ANT 383 Cultural Epidemiology: Global Perspectives (3) II, ONY** (Same as HAP 383)
 Cultural epidemiology addresses the structural and cultural determinants of health, and integrates methods, theories, and debates in both epidemiology and medical anthropology responding to health needs on an international scale. The course introduces students to methods for health research, concepts of health and disease, and strategies to alleviate ill health.
- ANT 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**
- ANT 411 Social Inequality and Stratification (3) II** (Same as AMS 411, SOC 411)
 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.**

- ANT 424 Sustainability and Rural America** (3) II, ENY S (Same as EVS 424, NAS 424, SRP 424, SOC 424)
This interdisciplinary course studies sustainability and the diverse cultures of rural American peoples by looking at topics such as ethics, environmental resources, economic strategies, public policy and social inequality. This course offers off-campus field observation and ethical reflection assignments and involves students in active collaborative problem-solving research. **P: PHL 250 or THL 250; Sr. stdg.**
- ANT 442 Cultural Communication** (3) (Same as COM 442)
This course combines attention to cultural communication and the ethnography of communication with practical strategies for coming to terms with communication between people from varying national, ethnic, professional, religious, and regional backgrounds.
- 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 493 Directed Independent Readings** (1-6) I, II, S
Student-initiated survey of the literature related to a broad 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: Jr. ANT major.**
- 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 499 Globalization: Understanding by Applying the Social Sciences** (3) II (Same as SOC 499)
Students will connect, integrate and elaborate prior learning and skills by studying and interpreting a selected aspect of the shared modern experience of globalization. Reading, research, discussion, writing, exercises and presentations will engage us in the topic and allow us to use our knowledge and skills developed by pursuing a sociology or anthropology major. The course provides both a completion of the undergraduate experience and engages student in program assessment. **P: SOC/ANT/NAS final semester majors only.**
- 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.**
- ANT 570(470) Introduction to Geographic Information Systems** (4) II, ENY (Same as ANT 570, EVS 570, SOC 570)
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 312 or IC.**

ARABIC

- ARA 101 Elementary Modern Standard Arabic I (3) I**
Elementary Arabic I is the first semester of the year-long sequence in first-year Modern Standard Arabic (MSA), with some exposure to Arabic dialects. The student will develop a strong foundation in understanding Arabic in both its written and spoken forms, and in reading and producing simple sentences. Active vocabulary learning, proper grammatical usage and developing the ability to use the language in diverse real-world situations will be emphasized. Not open to native speakers without the consent of the instructor.
- 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) S**
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) I**
This course continues and builds on ARA 101 and 102. It is designed to help students make the transition to natural communication by furthering the development of speaking, listening, reading, and writing skills, with emphasis on the language of everyday conversation. **P: ARA 102 or ARA 115.**

ART

For the Studio 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 3D Foundations (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 154 Clay Modeling I (3)**
This introductory 100 level course is designed for the non art major, art minor and art major alike. This course will encompass the sculptural process of clay modeling of the human form. This course will cover sculpture skills including life modeling, artistic anatomy, armature design, portraiture, and relief clay modeling. The elements and principles of three dimensional art will be woven into each project.
- ART 155 Welded Metal Sculpture I (3)**
This introductory 100 level course is designed for the non art major, art minor and art major alike. This course will encompass the sculptural process of welded metal sculpture. Students will explore abstract planar composition. This course will cover the technical processes of welding, metal finishing and steel sculpture creation. The elements and principles of three dimensional art will be woven into each project.
- ART 156 Bronze Casting I (3)**
This introductory 100 level course is designed for the non art major, art minor and art major alike. Students will explore both figurative and abstract sculptural forms in the ancient tradition of bronze casting. This course will cover the sculpture skills of wax modeling, mold making, and bronze casting. The elements and principles of three dimensional art will be woven into each project.
- ART 157 Stone Carving I (3)**
This introductory 100 level course is designed for the non art major, art minor and art major alike. This course will encompass basic sculptural processes involved in stone carving.

This course will cover the sculpture skills of maquette design, manual carving techniques, pneumatic and electric carving techniques, and stone finishing. The elements and principles of three dimensional art will be woven into each project.

- ART 201 Arts and Civic Engagement: Empty Bowls (3)**
This course explores artistic practice as social transformation through student involvement in the national program, Empty Bowls. Students work in a communal environment inside and outside the classroom through a partnership with the Siena Francis House. Students learn introductory ceramics skills in clay and glaze formulation, throwing, hand-building, glazing and kiln firing.
- 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 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 254 Clay Modeling II (3)**
This 200 level course is designed for the non art major, art minor and art major alike. This course will encompass the sculptural process of welded metal sculpture. Students will explore abstract planar composition. This course will cover the technical processes of welding, metal finishing and steel sculpture creation. A series of medium size sculptures will be created. **P: Any one of the following: ART 153, ART 154, 155, 156, 157.**
- ART 255 Welded Metal Sculpture II (3)**
This 200 level course is designed for the non art major, art minor and art major alike. This course will encompass the sculptural process of welded metal sculpture. Students will explore abstract planar composition. This course will cover the technical processes of welding, metal finishing and steel sculpture creation. A series of medium size sculptures will be created. **P: Any one of the following: ART 153, ART 154, 155, 156, 157.**
- ART 256 Bronze Casting II (3)**
This 200 level course is designed for the non art major, art minor and art major alike. Students will explore both figurative and abstract sculptural forms in the ancient tradition of bronze casting. This course will cover the sculpture skills of wax modeling, mold making, and bronze casting. The elements and principles of three dimensional art will be woven into each project. A series of small scale cast bronze sculptures will be created. **P: Any one of the following: ART 153, ART 154, 155, 156, 157.**
- ART 257 Stone Carving II (3)**
This introductory 100 level course is designed for the non art major, art minor and art major alike. This course will encompass basic sculptural processes involved in stone carving. This course will cover the sculpture skills of maquette design, manual carving techniques, pneumatic and electric carving techniques, and stone finishing. The elements and principles of three dimensional art will be woven into each project. **P: Any one of the following: ART 153, ART 154, 155, 156, 157.**
- 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 301 Arts and Civic Engagement: Empty Bowls (3)**
This course explores artistic practice as social transformation through student involvement in the national program, Empty Bowls. Students work in a communal environment inside and outside the classroom through a partnership with the Siena Francis House. Students learn introductory ceramics skills in clay and glaze formulation, throwing, hand-building, glazing and kiln firing. **P: ART 201 or 211.**

- 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 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 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 353 Sculpture III (3) I, II, S**
This 300-level course is designed for the non art major, art minor and major alike. Course projects will combine multiple material applications, processes and concepts. A series of medium to large sculptures will be produced in the student's materials of choice. Emphasis will be placed on public exhibitions, installations, public and private commissions. **P: Any one of the following: ART 253, ART 254, 255, 256, 257.**
- 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 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 374 Photographic Lighting and Studio Management (3) I**
A laboratory course for fine arts students in effective use of artificial, natural, strobe, and interior studio lighting to create technically competent and aesthetically strong personal photographic images. Students meet during class for demonstrations and critique of their work and complete assignments in the studio during independent lab times. **P: ART 271 or IC.**
- 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 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 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 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 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 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 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 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 400-level course is designed as a mixed media course for the non art major, art minor and major alike. Course projects will combine multiple material applications, processes and concepts. A series of medium to large sculptures will be produced in the student's materials of choice. Emphasis will be placed on public exhibitions, installations, public and private commissions. **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 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: 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.**

ART HISTORY

For the Art History Program of Study, please refer to page 144.

- ARH 210 History of Western Art I** (3)
This course presents a survey of major works of sculpture, architecture, and painting made in the Near East and Europe from the prehistoric beginnings of art through the fourteenth century. In studying these monuments, we will place equal emphasis on formal analysis and on contextual history. Students will be asked to identify particular works, to describe their basic elements, to distinguish those elements that characterize different styles, and to begin to explain the formal and historical reasons for these differences.
- ARH 211 History of Western Art II** (3)
This course presents a survey of major works of sculpture, architecture, and painting made in the Near East and Europe from the fourteenth century to the modern day. In studying these monuments, we will place equal emphasis on formal analysis and on contextual history. Students will be asked to identify particular works, to describe their basic elements, to distinguish those elements that characterize different styles, and to begin to explain the formal and historical reasons for these differences.
- ARH 219 History of Western Art and Architecture** (3)
A survey of major works of sculpture, architecture, and painting made in the Near East, Europe, and North America from the prehistoric beginnings through the twentieth century. In studying these monuments, equal emphasis will be placed on formal analysis and on contextual history. Students will be asked to identify particular works, to describe their basic elements, to distinguish those elements that characterize different styles, and to begin to explain the formal and historical reasons for these differences.
- ARH 301 Topics in the History of Art** (3)
Topical focus in the area of art and/or architectural history. Course will be subtitled in the Schedule of Courses, and the class can be repeated as long as the subtitle is different.
- ARH 319 Art International: The Art Culture of the Global Community** (3) (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.
- ARH 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.**
- ARH 350 Archaeology of Israel and Jordan** (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.**

- ARH 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.
- ARH 357 Ancient Near Eastern Art and Archaeology** (3) (Same as CNE 357)
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.
- ARH 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.
- ARH 365 Greek Art** (3) OD (Same as CNE 365)
Sculpture, painting and the minor arts of Greece.
- ARH 366 Etruscan and Roman Art** (3) OD (Same as CNE 366, ITA 366)
Sculpture, painting, and the minor arts of the Etrusco-Roman people.
- ARH 369 (360) Medieval Art and Architecture** (3) (Same as CNE 369)
The history of the Middle Ages studied through the material culture from approximately 300-1400 CE. An emphasis is placed on the painting, sculpture, and architecture from several key moments in the Middle Ages including the fall of Rome, the rise of Christianity, the Byzantine Empire, the Spread of Islam, the Vikings, Charlemagne, the Crusades, the Hundred Years War, and the Black Death.
- ARH 372 History of Northern Renaissance Art and Architecture** (3)
The Northern Renaissance studied through the material culture from 1400-1600 with an emphasis on the history of painting, sculpture, printing, and architecture. Important figures from this period include Jan van Eyck, Hieronymous Bosch, Albrecht Durer, and Pieter Brueghel.
- ARH 375 History of Italian Renaissance Art and Architecture** (3) (Same as ITA 375)
The Italian Renaissance studied through the material culture from 1200-1550 with an emphasis on the history of painting, sculpture and architecture. Important figures from the period include Giotto, Donatello, Leonardo da Vinci, Michelangelo, Raphael, and Titian.
- ARH 377(363) Seventeenth-Century Art and Architecture** (3) (Same as ITA 377)
The Age of the Baroque was one of the most dynamic in Western history. Absolute monarchs such as Urban VIII, Louis XIV, and Peter the Great ruled over growing empires from sumptuous new capital cities. Contact with the New World, Galileo's invention of the telescope, and Newton's discovery of the laws of physics challenged conceptions of the universe and humanity's place in it. A philosophical revolution unfolded led by Hobbes, Descartes, Spinoza, and Leibniz. Literature flourished with the works of Shakespeare and Cervantes, while Purcell and Bach wrote the century's soundtrack.
- ARH 380 History of the Art of the Eighteenth Century** (3)
The Enlightenment in Europe and the United States studied through the material culture from 1667-1814 with an emphasis on the history of painting, sculpture, and architecture. Important figures from this period include Christopher Wren, Antoine Watteau, Balthazar Neumann, Giambattista Tiepolo, Thomas Jefferson, and Jacques-Louis David.
- ARH 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.
- ARH 384 History of American Architecture** (3) (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.**
- ARH 385(368) History of American Art and Architecture** (3) (Same as AMS 385)
A history of the major works of sculpture, architecture, and painting made in the United States from the pre-Columbian period to the present day. In studying these monuments, equal emphasis will be placed on formal analysis and on contextual history. Students will be asked to identify particular works, to describe their basic elements, to distinguish those elements that characterize different styles, and to begin to explain the formal and historical reasons for these differences.

- ARH 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.
- ARH 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-García, Lam, Matta, Kahlo, Varo, Chambi, Salgado, Barragan, Botero, Bravo, Jimenez, etc.
- ARH 390 (367) Nineteenth Century Art (3)**
A history of the major works of sculpture, architecture, and painting made in the Europe from Napoleon to the First World War. In studying these monuments, equal emphasis will be placed on formal analysis and on contextual history. Students will be asked to identify particular works, to describe their basic elements, to distinguish those elements that characterize different styles, and to begin to explain the formal and historical reasons for these differences. Areas covered include Neoclassicism, Romanticism, Realism, Impressionism, and Post-Impressionism.
- ARH 394 (369) Modern European Art, 1900-1945 (3)**
Survey of 20th-century painting, sculpture and architecture in Europe. Focus on Fauvism, Cubism, Expressionism, Dadaism and Surrealism.
- ARH 401(391) History and Methods of Art History (3) II**
The course will examine the significant historiographic contributions of major figures in Art History, consider contemporary controversies facing modern art historians, and compare various interpretations of art-historical issues. An emphasis will be placed on research methods, bibliography, and the use and criticism of source materials. The course culminates in the completion of a research paper and public presentation that could be the foundation of a scholarly essay and professional lecture. Consent of instructor required. **P: Art History major, Jr. or Sr. stdg.; IC**
- ARH 410 The Lives of Artists in Film (3)**
This course considers the image of the artist through an examination of contemporary biographies and modern films, ranging in subject from the Italian Renaissance to the present day. In this examination we will consider such questions as: what were the goals of contemporary biographers? Were these goals the same as modern biographers? How were these goals achieved in the past? How are they achieved in modern movies? Was, for example, Michelangelo the same kind of artist as Frida Kahlo? Our examination will have three parts: first, we will read a selection of an artist's biography; second, we will watch a film adaptation of the artist's life; and third, we will have sustained in-class discussions of the film and biography.
- ARH 414 The Jesuits and the Arts (3)**
Willing to serve wherever the needs were greatest, the Jesuits in the early-modern period ministered across Europe and around the world, and their mission soon came to include use of the arts. This course examines the collaboration between the arts and Ignatian spirituality that produced to an outpouring of work in painting, sculpture, architecture, urbanism, theater, and music created by the Jesuits around the world.
- ARH 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.**

- ARH 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.
- ARH 435 Women, Art and Society** (3) (Same as WGS 435)
This course is an exploration of women both as the subjects and the creators of art from antiquity to the present. In this class we will examine the creation, modification and persistence of images of women throughout history, while at the same time we will survey the history of women artists and their artistic contributions. In studying these works of art, we will place equal emphasis on formal analysis and on contextual history.
- ARH 445 (364) History of Architecture and Urbanism** (3) AY
This course presents a history of the major buildings and cities from around the world from the Neolithic period to the present day. In studying these monuments, equal emphasis will be placed on formal analysis and on contextual history. Emphasis will be placed on types of architecture, major architects, use and function of buildings, urban development, urban design theory, and the impact of architecture and urbanism on society.
- ARH 450 The City** (3)
An exploration of urban history, theory, design, and sociology through the study of a single city, such as Athens, Paris, London, Moscow, New York, Mexico City, or Tokyo. Alternately, the course could cover multiple cities across time and cultures, demonstrating the evolution of urbanism and urban theory. Course will be subtitled in the *Schedule of Courses*, and the class can be repeated as long as the subtitle is different.
- ARH 461 The City of Rome in Antiquity** (3) OD (Same as CNE 461, ITA 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.
- ARH 465 The City of Rome since Antiquity** (3) (Same as CNE 465, ITA 465)
An architectural, urban, and social historical survey of the city of Rome from the end of the Empire, through the Middle Ages and Renaissance, and ending with the modern city. The class will focus on urban history, theory and design, but will cover political history to the extent needed to provide a framework for the course.
- ARH 467 History of The Art of Spain and Her Colonies** (3) (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.).
- ARH 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.
- ARH 475 Michelangelo and the High Renaissance** (3)
This course presents a survey of the career of Michelangelo, and study his art through an examination of earlier and contemporary artistic traditions, the literature of Dante, and developments in Italian humanism, Michelangelo's religious faith, and the general context of the High Renaissance. We will read primary documents, including Michelangelo's own poetry and personal letters, as well as biographical treatments published during his lifetime.
- ARH 480 Management of Arts Organizations** (3)
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. **P: IC.**
- ARH 481 Arts Management Internship** (3)
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: IC.**

ARH 489(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: ARH 219 or IC.**

ARH 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.**

ARH 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.**

ARH 499 Senior Thesis (1-3) I, II

Open only to seniors. After choosing a thesis advisor, the student registers for one credit in the first semester of the senior year and two credits in the next. **P: Sr. stdg.; IC.**

ASIAN STUDIES

For the Asian Studies Minor, please refer to page 105.

ASN 300 Introduction to Asian Studies (3)

Asian Studies is an interdisciplinary program designed to introduce students to the traditions, cultures and politics of Asia by examining the area stretching from Korea in the east to Pakistan in the west, and from the steppes north of China's Great Wall to the southern tip of the Indian subcontinent.

ATMOSPHERIC SCIENCES

For the Atmospheric Sciences Program of Study, please refer to page 106.

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) OD

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 211 Weather Analysis and Forecasting (3) I

Designed for students majoring or minoring in ATS and non-majors interested in meteorology, ATS 211 investigates the basics of atmospheric circulation systems both descriptively and quantitatively. Emphasis will be placed on the display, interpretation and analysis of weather data. Students will also participate in weather forecasts using current data. **P: ATS 113 and ATS 114.**

ATS 231 Severe and Unusual Weather (3) OD

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 443 Environmental Geology** (4) I, AY, 2008 (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) OD
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 510 Introduction to Physical Meteorology** (3) I
The purpose of this course is to introduce the student to the physics of atmospheric processes. Topics include the structure and composition of the atmosphere; thermodynamics of gases; vertical and horizontal transport of heat by radiative and turbulent processes; the structure and evolution of the atmospheric boundary layer; and cloud microphysical processes. This course is designed to meet the National Weather Service requirement for 3 semester hours of Physical Meteorology. **P: ATS 113 and MTH 245.**
- ATS 516 Computer Methods in Atmospheric Sciences** (3) II, AY, 2009
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
Examination of the use of forecast models from the National Meteorological Center (ETA, GFS, WRF, 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) II (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 CO₂ 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 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 552 Boundary Layer Meteorology** (3) OD (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 2008 (Same as EVS 553)**
The tropical meteorology of West Africa is emphasized in this course. Weather systems and processes in the tropics are examined relative to the dynamics of the West African monsoon. Additional topics include monsoon meteorology of Africa, Asia and the Southwestern United States. A number of tropical oscillations are examined: MJO, QBO and ENSO. The climatology of North Atlantic tropical cyclones and their relationship to the West African monsoon are examined. **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, 2008 (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.**
- ATS 562 Synoptic Meteorology II (4) II**
Detailed examination and use of fax charts, GEMPAK 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) II**
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.**

Graduate-level courses in Atmospheric Sciences are listed in the Graduate issue of the Bulletin.

BIOLOGY

For the Biology Program of Study, please refer to page 108.

- 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. 3R.
- BIO 150 Biotechnology and Society (3) II, AY**
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 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 organism 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**
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 or 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**
Lecture and laboratory study of the comparative morphology of representative members of the phylum Chordata. Lectures incorporate the developmental and evolutionary bases of anatomy. Useful background for pre-health majors and those enrolling in BIO 449 or BIO 461. This course by content and by instruction is designed to provide a useful foundation for students that go on to take BIO 449, Animal Physiology and/or BIO 467, Developmental Biology. For students who want a thorough background in vertebrate biology, it also serves as the complement to BIO 483, Vertebrate Natural History. 3R, 3L. **P: BIO 211 and 212.**
- BIO 335 Zoology (4) II (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 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) I, 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 and 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: BIO 211 and 212 and 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 (or CHM 285/286).**
- BIO 401 Biostatistics (4) II, S** (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 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 532.**
- BIO 425 Development of Biological Thought (3) S**
This travel course will examine the development of the intellectual tools used in the natural sciences, particularly Biology, while visiting many of the institutions and locations in which the advances were made. The course will be held in London, UK, and will include both lectures and field trips. **P: BIO 211 and 212.**
- BIO 432 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.**

- BIO 435 Coastal and Estuarine Ecology** (4) S, AY (Same as EVS 435)
Coastal and Estuarine Ecology is a 3 ½ week, intensive travel course. Participants experience, first-hand, the great diversity of marine ecosystems of the Gulf of Mexico, Tropical Atlantic, and Southeastern Atlantic regions. The class will examine tropical coral reef, sea grass, and mangrove communities, barrier islands (salt marshes, beaches, mudflats), and diverse open water habitats (lagoons, bays, tidal creeks and rivers, and near-shore shelf waters). The course emphasizes physical, chemical, and biological concepts applied to coastal habitats, with an emphasis on adaptations of marine organisms to their environments, ecological relationships, sampling methods and site characterizations, and threats to coastal ecosystems. The class stays at nationally recognized oceanographic and coastal field stations in Florida, Georgia, and Mississippi. The Creighton 18' Sundance Skiff and field station boats serve as work platforms and provide access to various habitats. **P: One organismal-level or field course in biology or IC.**
- BIO 449 Animal Physiology** (3) I, II
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
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 467 Developmental Biology** (4) II
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 (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. **P: BIO 211 and 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; 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: 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. No more than 12 semester hours of credit may be accrued in any combination of BIO 493, 495, and 497. **P: 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, & 497. **P: IC.**
- BIO 501 Bioinformatics: Genomics Approach (4)**
Introduction to the field of bioinformatics and genome science. Lectures will discuss the pivotal role of bioinformatics in metabolizing the massive amounts of biological information generated from genome projects. Students will also have hands-on experiences of data mining, processing, and analysis, using computer software publicly available or hand-coded by students. **P: BIO 317 or IC.**
- BIO 517 Current Topics in Genetics (3) I, 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, and proteomics. 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 520 Cytogenetics (4) I, AY**
Cytogenetics is the science of the structure and behavior of chromosomes. We will examine chromosome transmission, rearrangements and structure, and the effects of these phenomena on speciation in plants and animals. 3R, 3L. **P: BIO 317.**
- BIO 523 Environmental Toxicology (3) II, AY (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**
Interactions between nucleic acids and proteins responsible for cell growth, division, and development. Assumes basic knowledge of biomolecules and gene expression. Topics include DNA and chromatin structure and modification, DNA cloning and sequencing, DNA replication and repair, DNA recombination and transposition, regulation of gene expression (transcription, RNA processing, translation, and protein modification), functions of non-coding RNAs, genomics, and analytical techniques of molecular/cellular biology. Original scientific literature study including student-facilitated discussions and a term paper. 3R. **P: Any two of these courses: BIO 317, BIO 351, BIO 362, BMS 521, CHM 371, CHM 381 or IC.**
- BIO 539 Ecology of Zoonotic Diseases (3) I (Same as EVS 539)**
Over the past few decades there has been a resurgence of zoonotic diseases such as SARS and Avian Influenza. Why do zoonotic diseases emerge, and what factors lead to epidemics? This course will address these questions, and apply an ecological approach to an understanding of epidemiology in wildlife populations. 3R. **P: BIO 211 and 212 and one of the following: BIO 351, BIO 390, BIO 432, BIO 481.**

- BIO 549 Environmental Physiology (3) I, AY** (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) II**
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, BIO 432, BIO 532, or IC.**
- BIO 559 Special Topics in Physiology (3) I**
This course provides an in-depth examination of one or more physiological topics through a combination of lecture, discussion and student presentations. Reference materials will include textbooks, book chapters, review articles and the primary literature. Topics may include but are not limited to aspects of environmental, comparative and evolutionary physiology, as well as mammalian and human physiology. In most semesters the focus will be on current research, but historical aspects of some subjects may also be addressed. 3R **P: BIO 449.**
- BIO 561 Entomology (4) I, AY** (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 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 either BIO 333 or BIO 449.**
- BIO 563 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 Current Topics in Neuroscience (3) II**
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 580 Current Topics in Ecology (3) II** (Same as EVS 580)
The focus of this course will be advanced topics in ecology, with an emphasis on the concepts and current approaches in ecosystem ecology. Primary literature will serve as a key resource for students. The structure and function of several model ecosystems will be explored in detail, with particular attention to the concepts of biodiversity, productivity, decomposition and nutrient cycling. In addition, the degree of human alteration of ecosystem structure and function as well as consequences for global ecological processes will be presented. 3R **P: BIO 390 or 481 or 485.**

- BIO 581 Evolution (4) I** (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. 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 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.**

BLACK STUDIES

For the Black Studies Program of Study, please refer to page 110.

- 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 341 American Cultural Minorities (3) I** (Same as 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 North 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 353 Jazz in American Culture** (3) OD (Same as AMS 353, 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.
- 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. **P: ENG 120, 121, 150.**
- 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. **P: ENG 120, 121, 150.**
- BKS 411(311) Politics of Africa** (3) I, AY (Same as AFS 411, PLS 411)
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 428 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

Professors Goss, Kracher, Purcell; Associate Professors Duckworth, Gustafson, Hoh, Wells, and York; Assistant Professors Gallo, 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) I, 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 321 Mock Trial Lecture (2) I**
 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. This course cannot be repeated.
- BUS 322 Mock Trial Practicum (1) II**
 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**
 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 satisfactory/unsatisfactory and only 3 hours of internship credit may be used to satisfy graduation requirements. **P: 2nd Sem. Jr. or Higher stdg. in the College of Business Administration.**
- BUS 401 Legal Aspects of Life Insurance (3)**
 This class will focus on understanding of the legal aspects of Individual Life Insurance as a financial services contract and a key cornerstone of the financial planning and risk management processes. This course will cover concepts relating to the key contractual elements of life insurance and policy provisions. Covers life insurance contractual obligations relating to the company, as well as policy assignment and estate issues relating to beneficiary designations. Concludes with legal aspects of Agents/Brokers, marketing and advertising, illustration regulations and privacy laws. This course covers the materials required for educational credit towards the CLU professional designation. **P: ECO 203, FIN 513, Junior stdg., elementary level skills in Microsoft Office Suite.**
- 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.**

BUSINESS INTELLIGENCE AND ANALYTICS (BIA)

Professors Corritore, Nath (Chair) and Hendrickson; Associate Professors Chen, Duckworth and Marble; Associate Professor Govindarajulu; Professor Emeritus Gleason.

Requirements for Business Intelligence and Analytics as the field of concentration—see page 231.

- BIA 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 BIA 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.**
- BIA 354 Data Base Management (3) II**
Course develops both skill and knowledge relative to data base design and management. **P: BIA 253; CSC 221; Jr. stdg.**
- BIA 366 Internship (3) I, II, S**
The course is designed to provide students with practical business intelligence & analytics (BI&A) experience by applying information technology/analytics concepts and technical skills learned in the classroom. It requires 150 hours with an employer, designated class meetings, written assignments, and oral presentations. Although the college will try to help a student obtain an internship, the responsibility for finding the internship lies with the student. Credit for this class is dependent upon a) an interview with the sponsoring employer, b) relevance of the internship to the students BI&A course work, and c) approval by the chair of the BIA department. The course is graded satisfactory/unsatisfactory and only 3 hours of internship credit may be used to satisfy graduation requirements. Enrollment is limited. **P: Jr. or higher stdg; IC.**
- BIA 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.**
- BIA 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: BIA 253; Jr. stdg.**
- BIA 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: BIA 253; Sr. stdg.**
- BIA 470 Data Communications and Networks (3) I**
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: BIA 354 or IC.**
- BIA 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: BIA 253; Sr. stdg.**

- BIA 481 Web Technologies (3)**
 As the interest in websites becomes more widespread, so have peoples' expectations. It is increasingly obvious that the functionality provided by HTML is insufficient. This is particularly true as more and more websites are used to interact with databases. Many scripting and actual programming languages and environments such as CGI, Javascript, Flash, and Flex are being turned to as they can provide the added functionality demanded by today's commercial websites. This course will explore these and other technologies and use them to create websites. **P: Sr. stdg. or IC.**
- BIA 482 Wireless Technology and Mobile Commerce (3)**
 The purpose of this course is to explore the impact of wireless and mobile e-commerce on the ways in which business is conducted in this electronic era, as well as the technologies involved in developing systems that will support this new way of doing business. This exploration is designed to give the student: a) an appreciation for the use of wireless technologies in achieving business objectives and changing the way business strategies are being implemented, b) an understanding of the various technologies used in mobile e-commerce, and c) technical skills for developing and deploying wireless and mobile e-commerce systems. This course aims to provide the student with a balanced coverage on both the managerial and technical issues relevant to wireless and mobile e-commerce. **P: BIA 253, BIA 375.**
- BIA 483 Managing Information Resources (3)**
 This course focuses on the managerial issues faced by business and information systems (IS) managers in today's technology rich business environment. Special emphasis is placed on information as a critical resource and on its role in policy and strategic planning. The course discusses the issues and techniques relevant to the effective management of information resources. It will take a broad perspective by examining the internal, external, and strategic planning issues involved in IS resource management. The course will also use Harvard Business School cases and other cases to explore the managerial, technical, behavioral issues relevant to IS resource management. **P: BIA 253 or equivalent.**
- BIA 484 Business Intelligence and Data Analytics (3)**
 The purpose of this course is to deal with the issue of extracting information and knowledge from large databases. The extracted knowledge is subsequently used to support human decision-making with respect to summarization, prediction, and the explanation of observed phenomena (e.g. patterns, trends, and customer behavior). Techniques such as visualization, statistical analysis, decision trees, and neural networks can be used to discover relationships and patterns that shed light on business problems. This course will examine methods for transforming massive amounts of data into new and useful information, uncovering factors that affect purchasing patterns, and identifying potential profitable investments and opportunities. **P: BUS 229, BIA 253.**
- BIA 485 Applications of Artificial Intelligence (3)**
 The course will provide a survey of the theory and applications of artificial intelligence in the business decision environment, with an emphasis on artificial neural networks. Students will engage in reviews of current expository and research literature in the area and will attain hands-on experience with computer packages supporting the creation of these types of systems. Neural network design projects will be required of all students. **P: MTH 245, BIA 253, BIA 375 and Sr. stdg.**
- BIA 486 Managerial Decision Making (3)**
 This course constitutes an introduction to several basic, widely applicable analytical problem-solving methods, including linear programming, network analysis, decision analysis and Monte Carlo simulation. Course coverage places emphasis on developing an ability to represent business problems in a formal framework, allowing for the application of analytical methods in support of decision-making, and on critical interpretation of the results of such decision analysis, in the context of business management. As part of this coverage, students work extensively on solving problems with MS Excel. **P: BIA 253 and BUS 229.**
- BIA 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.**

- BIA 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 and Dean's approval.**

CHEMISTRY

For the Chemistry Program of Study, please refer to page III.

- CHM 105 Introductory Chemistry (3) II, S**
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 students. 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 students. 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. **CO: CHM 112.**
- 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. **P: Entering first-year students must have a 24 on their Math ACT or equivalent. 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 with a grade of "C" or better. 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) OD**
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) OD**
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 with a grade of "B" or better. 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. This course can be repeated for a total of 3 credits. **P: IC.**
- CHM 315 Quantitative Analysis (4) II**
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. Three hours of lecture and three hours of laboratory per week. **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 with a grade of "C" or better. 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 with a grade of "C" or better. 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 with a grade of "C" or better. 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; P or CO: PHY 212; 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 participant's knowledge of descriptive chemistry by first hand laboratory experience. **P: CHM 205 or 285.**
- CHM 371 Biochemistry of Metabolism (3) I, II**
A one-semester survey of biochemistry for pre-health professions. Topics covered include structure and function of biomolecules, metabolism and bioenergetics. An emphasis will be placed on medical/clinical examples. **P: BIO 211, CHM 323.**
- CHM 381 Fundamentals of Biochemistry (3) I**
A mechanistic approach to biochemistry for chemistry and biochemistry majors. Topics covered include a structural and mechanistic approach to studying the function of biomolecules, a mechanistic investigation of intermediary metabolism and nucleotide and protein synthesis, and bioenergetics. **P: CHM 323; Open to chemistry/biochemistry majors or IC.**
- CHM 382 Biochemistry Laboratory (2) I, II**
A one-semester laboratory course designed to support CHM 381. 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 371 or CHM 381, IC.**
- 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 286 or CHM 315; CO: 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. The course is repeatable for a max of 3 credits. **P: CHM 315 or CHM 285, CHM 286.**
- CHM 493 Directed Independent Readings (1-3) I, II, S**
Assigned reading in a special area of interest. The course is repeatable for a max of 4 credits. **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. The course is repeatable for a max of 8 credits. **P: CHM 324 or CHM 285, CHM 286; IC.**
- 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, CHM 286; IC.**
- CHM 498 Directed Independent Research - Special (1-2)**
Participation in a pre-approved independent research project conducted outside the Creighton University Chemistry Department. The course is repeatable for a max of 6 credits. **P: CHM 324 or CHM 285, CHM 286; IC.**
- CHM 502 Inorganic Chemistry II (3) II**
Additional topics in inorganic chemistry. Emphasis on organometallic chemistry of transition metals, synthesis and chemical reactivities of inorganic and organometallic compounds. **P: 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 interface of organic chemistry and biology, with emphasis on a chemical understanding of biological infrastructure, the interactions of small organic molecules within biochemical systems, structure-activity relationship profiling of natural and synthetic drugs, and the relevance of small molecule therapeutics in modern society. **P: CHM 381.**
- 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 528 Polymer Chemistry Laboratory (1)**
The goal of this course is to expose students to the fundamentals of polymer syntheses and characterization. The course will focus on some of the key synthetic methods for making plastics and the characterization techniques for determining the physical properties of the polymers. Practical applications of polymer chemistry in society will be a theme throughout the course. **P or CO: CHM 527.**
- 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 will be discussed. The course will begin with review of related material from CHM 341 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 556 Electrochemical Methods (3)**
This lecture course covers the fundamentals of electrochemistry and the application of electrochemical methods to chemical problems. It describes electrochemical terms, electrode potentials and processes, along with a historical perspective of electrochemical methods. It covers specific electrochemical techniques and the role of electrochemistry when applied to other fields of science. **P: CHM 456.**
- 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 371 or CHM 381.**
- CHM 576 Protein Biochemistry (3)**
This course will introduce students to current views of protein structure and function. Students will become educated consumers of the wealth of information available in protein sequence and structure databases and will develop knowledge of techniques required to characterize their own proteins in the laboratory. **P: CHM 371 or CHM 381.**
- 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 II (3)**
Continuation of CHN 101. **P: CHN 101 or equivalent.**
- CHN 201 Intermediate Chinese I (3)**
This course is the continuation of CHN 102. It will help students achieve greater fluency in oral expression and emphasize the reading of Chinese character texts. Grammar, character writing and new vocabulary will be taught. **P: CHN 102.**
- CHN 202 Intermediate Chinese II (3)**
This course is designed to help students achieve greater fluency in the four basic skills of listening, speaking, reading, and writing. They will be able to read newspapers, short stories, and essays by modern authors, later writing short compositions in Hanzi on their readings. **P: CHN 201.**

CLASSICAL AND NEAR EASTERN STUDIES

For the Classical and Near Eastern Studies Program of Study, please refer to page 115.

- 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) I (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 303 Introduction to the Early Medieval World** (3) OD
A general interdisciplinary introduction to the early Medieval World in the Latin West. Readings will be drawn from a variety of disciplines, such as history, literature, religion, philosophy, theology, art, and music.
- CNE 304 Introduction to the Later Medieval World** (3) OD
A general interdisciplinary introduction to the later Medieval World in the Latin West. Readings will be drawn from a variety of disciplines, such as history, literature, religion, philosophy, theology, art, and music.
- 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. **P: So. stdg.**
- 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) OD (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 ARH 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 Israel and Jordan** (3) OD (Same as ARH 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 351 Warfare in the Classical World** (3) (Same as HIS 351)
This course will study warfare as it was conducted and imagined in the Greek and Roman worlds. Using both primary evidence and secondary scholarship, we will examine practical manuals of tactics and siege warfare, as well as literary works from a variety of genres. We will also consider material evidence, such as visual and monumental depictions of warfare, and their role in producing cultural meaning.
- CNE 354 Greek Art and Archaeology** (campus) (3) OD (Same as ARH 354)
Study of the sculpture, painting, architecture, and sites of ancient Greece with emphasis on their archaeological, historical, and geographical aspects.
- CNE 357 Ancient Near Eastern Art and Archaeology** (3) OD (Same as ARH 357)
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 360)
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) OD (Same as ARH 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 ARH 365)
Sculpture, painting, and the minor arts of Greece.
- CNE 366 Etruscan and Roman Art** (3) OD (Same as ARH 366)
Sculpture, painting, and the minor arts of the Etrusco-Roman people.
- CNE 369 Medieval Art and Architecture** (3) OD (Same as ARH 369)
Architecture, painting, and sculpture of Europe from the 4th century to the 14th century.
- 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 372 History of Medieval Philosophy** (3) AY (Same as PHL 372)
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.**

- CNE 381 Ancient Medicine** (3) 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 excurses into its material culture, from prehistoric times through the end of the Peloponnesian War.
- CNE 402 Hellenistic History** (3)
The political and social history of Greece from the end of the Peloponnesian War through the fall of Greece to Rome in 146 B.C. Emphasis will be placed on Alexander's conquests and the lasting influence of Hellenistic political, social, and cultural institutions.
- CNE 403 The Roman Republic** (3) I, AY (Same as HIS 403)
The political and social history of Rome with excurses 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 excurses 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) (Same as HIS 418)
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) (Same as HIS 419)
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 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 contexts, 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 ARH 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. Course is repeatable as long as subtitle is different.

- 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 in Antiquity** (3) OD (Same as ARH 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) OD
 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?
- CNE 465 The City of Rome since Antiquity** (3) (Same as ARH 465)
 An architectural, urban, and social historical survey of the city of Rome from the end of the Empire, through the Middle Ages and Renaissance, and ending with the modern city. The class will focus on urban history, theory and design, but will cover political history to the extent needed to provide a framework for the course.
- 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. **P: DC.**
- 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 523 Israelite Religions** (3) (Same as THL 523)
 This course will examine the manifold expressions of Israelite religions - biblical, archaeological, and epigraphic. Emphasis will be placed on the diversity of Israelite religions and the relationship of Israelite religions to the religions of her Near Eastern neighbors. **P: 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 121.

- COM 111 Introduction to Communication Studies (3) I, II**
Introduction to Communication Studies first explores the history of the communication discipline as well as theories and paradigms of and methods in Communication Studies and then outlines sub disciplinary contexts including: Interpersonal Communication, Organizational Communication, Mass Communication, Rhetoric and Public Culture, Intercultural Communication, Health Communication, Group Communication, Nonverbal Communication, and Gender Communication.
- COM 152 Civic Engagement through Public Communication (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 153 Design and Rapid Prototyping Lab I (1)**
Communication studies component of an interdisciplinary course in engineering design and rapid prototyping. An introduction to the process by which messages are formulated and delivered to influence decision-making. Emphasis on acquiring common analytic approaches to message preparation, uses of evidence, patterns of inference and the selection and presentation of judgments. **CO: ERG 211 and ENG 151.**
- COM 154 Design and Rapid Prototyping Lab III (1)**
Communication studies component of an interdisciplinary course in engineering design and rapid prototyping. Emphasis on acquiring common analytic approaches to message preparation, 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 technical settings. **P: COM 153. CO: ERG 311 and ENG 152.**
- COM 155 Design and Rapid Prototyping Lab IV (1)**
Communication studies component of an interdisciplinary course in design and rapid prototyping. Emphasis on acquiring common analytic approaches to message preparation, 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 public and client-centered settings. **P: COM 154; CO: ERG 312 and ENG 153.**
- COM 200(204) Communication Practices (3) I**
Considering "communication as practice" involves not only engaging in multiple communicative activities but also talking and thinking about those activities as theoretical, normative, and discursive (Craig, 2006). In this course, students will be able to articulate, enact (individually and in groups), and evaluate various forms of communicative practice-including oral, written, visual, and technological-in interpersonal, organizational and public realms of communication.
- 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 300(203) 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 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 312 Mass Media and Modern Culture (3) OD (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 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) OD (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) OD
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 359 Rhetoric and Public Culture** (3) I
This course provides an introduction to key theoretical concepts and perspectives in rhetoric and public culture (glossing the history of rhetoric and focusing on contemporary rhetorical theory). After considering how and why one might study rhetoric in contemporary public culture, emphasis is placed on how to critically analyze artifacts of public culture.
- COM 360 Organizational Communication** (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) II
Examination of person-to-person communication. Topics include perception, motivation, language and meaning, nonverbal communication, and listening.
- COM 363 Family Communication** (3) OD
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 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) OD (Same as HAP 390)
This course investigates research and theories and permits students to demonstrate practical applications of communication within healthcare situations. The course emphasizes understanding communication variables such as verbal, nonverbal, conflict, listening, and self-disclosure in healthcare contexts. The course also examines issues of ethics and relationships between healthcare providers, patients, and families.
- COM 401 Junior Varsity Debate and Forensics** (1-3) I, II
Competitive debate and forensics. May be repeated to a limit of three credits. **P: IC.**
- COM 440 Gender Communication** (3) OD (Same as 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 441 Deliberation on Sustainability (3) OD**
 This course has the dual purpose of exposing students to a variety of local, national and international examples of deliberative process while affording an opportunity for students to engage in the creation and facilitation of a deliberative forum on an issue important to the Creighton campus. This course is primarily about deliberation. At the moment (during this decade, at least), sustainability is a topic worthy of consideration through deliberative, democratic means.
- COM 442 Cultural Communication (3) OD (Same as ANT 442)**
 This course combines attention to cultural communication and the ethnography of communication with practical strategies for coming to terms with communication between people from varying national, ethnic, professional, religious, and regional backgrounds.
- COM 450 Communicating Health Narratives (3) OD (Same as HAP 450)**
 This course examines communication in multiple health care contexts: individual (health beliefs and attitudes), interpersonal (patient-provider and provider-provider), organizational (hospital, and clinic), and societal (public health campaigns, public health campaigns, public health policy, and health politics). We will explore how narratives function to construct and communicate health beliefs in these contexts.
- COM 460 Historical and Contemporary Perspectives on Organizational Communication (3) II**
 This course takes an advanced look at organizational communication by first covering the history and theoretical perspectives that underpin the study of organizations, and then by engaging significant areas of research in the field from a variety of methodological perspectives. **P: COM 360 or IC.**
- COM 462 Gender, Work, and Organizing (3) OD (Same as WGS 462)**
 This course explores what it means to "work" and organize in a gendered world from a communicative perspective. Topics include how labor is valued differently whether performed in the public (i.e., business and government) or private realm (i.e., domestic work, childcare and eldercare) - and by whom such labor is performed.
- COM 463 Communication Consulting (3) I (Same as 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. **P: COM 203 or IC.**
- 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 471 Discourse of the American Family (3) OD (Same as AMS 471)**
 With American culture, the concept of family has taken on "god term" status. Rather than studying communication within families, the course examines how the social construction of family (communication about family) has changed over time and examine the discourse, myths, problems/limitations, and power with how family has been culturally constructed.
- COM 472 Communication in Close Relationships (3) OD**
 One of the unifying factors in human life is having close, personal relationships. These relationships cannot be formed or maintain closeness without communication. In this course, we will examine the role of communication in various close relationships (relationships which might be covered include family, friendships, and romantic relationships) as written and theorized about in the literature. Additionally, we will discuss and critique various methodological perspectives for the study of communication in close relationships.
- COM 477 Gendered Health Communication Across the Lifespan (3) OD (Same as HAP 477, SRP 477, WGS 477)**
 A great human concern in our society is the gendered construction of health and how individuals are affected by health decisions. This interdisciplinary course will explore gendered health issues from a unique perspectives involving ethical, biocultural and psychosocial perspectives across the lifespan. The first part will lay the theoretical groundwork and identify policy and ethical concerns; the second part will examine gendered health issues across the lifespan. **P: PHL 250 or THL 250; Sr. stdg.**

- COM 478 Intersections of Working and Personal Life** (3) OD (Same as SRP 478)
This course explores the intersections between (paid) working life and personal/family life from a variety of disciplinary perspectives. Topics include "balancing" careers with volunteer work, caregiving and relationships as well as the ways in which individuals communicate about their personal and family lives while at work and their working lives at home. **P: PHL 250 or THL 250; Sr. stdg.**
- COM 481 Rhetorical Dimensions of Persuasion and Social Movements** (3) OD
This course will focus on the ethical dimensions of persuasion and social influence in public culture. Students will critically examine the role persuasion and social influence has historically had in the construction and evolution of social movements and their leaders.
- 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: PHL 250 or THL 250; Sr. stdg.**
- COM 489 Visual Construction of Modern Culture** (3)
This course explores the idea that memorable visual messages have power to inform, educate, and persuade. It attempts to discover why some images are remembered while some are not. We will study visual communications to understand their rhetorical power. Topics could include: iconicity, verbal versus visual, public memory, and visual argumentation.
- 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: IC and approval of major advisor.**
- 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: IC and approval of major advisor.**
- 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 Internship and Professional Development** (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: Eighteen hours of COM courses or IC.**
- COM 497 Senior Research in Communication Studies** (3) I
This course reinforces students' knowledge of the communication research process by reviewing the methodical alternatives in the field, introducing students to exemplary scholarship in communication studies, and by guiding students through the completion of original research projects. **P: Sr. stdg.**
- 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.**

INFORMATICS AND COMPUTING SCIENCE

For the Informatics and Computing Science Program of Study, please refer to page 160.

- 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 Introduction to Programming** (3) I, II
A first course in computer programming and problem solving, with an emphasis on multimedia applications. Specific topics include algorithm development, basic control structures, simple data types and data structures, and image/sound processing.
- CSC 222 Object-Oriented Programming** (3) II
A second course in computer programming, emphasizing the object-oriented approach to software development. Specific topics include object-oriented design, classes and objects, encapsulation, list processing, and recursion. **P: CSC 221.**
- CSC 321 Data Structures** (3)
An introduction to fundamental data structures used in solving problems, including the programming and mathematical concepts required to implement and analyze data structures. Specific data structures include lists, stacks, queues, and linked structures. Supporting concepts include logic, proof techniques, and basic graph theory. **P: CSC 222.**
- CSC 414 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 221.**
- CSC 421 Algorithm Design and Analysis** (3)
An advanced problem-solving course that focuses on the design, implementation, and analysis of algorithms. Specific algorithmic approaches include divide-and-conquer, greedy, backtracking, and dynamic programming. The connections between algorithms and data structures, such as trees and hash tables, are highlighted. **P: CSC 321.**
- 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 448 Freedom and Security in a Digitally-Divided Society** (3) (Same as SRP 448)
A Senior Perspective course in which students explore the concepts of Freedom and Security in 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. **P: PHL 250 or THL 250 and Sr. stdg.**
- 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: IC.**
- 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: IC.**
- CSC 497 Directed Independent Research** (1-3)
A research project under the guidance of a member of the faculty. A student may complete up to three credit hours of CSC 497 and CSC 499 combined. **P: IC.**
- CSC 499 Directed Internship** (1-3)
Students gain professional experience by placement in a computing company or information technology department on a part-time basis for one semester. Students will work closely with a faculty advisor to define the project, identify its academic content, and report on its results. A student may complete up to three credit hours of CSC 497 and CSC 499 combined. **P: IC.**

- CSC 515 Computer Architecture (3) OD**
An advanced study of the architecture of computer systems. Specific topics include system components, microprogramming, parallel computers, pipeline and vector processing, and VLSI. **P: CSC 414.**
- CSC 525 Theory of Computation (3) OD**
A study of models of computing and the theoretical limitations of computation. Specific topics include formal grammars, finite state machines, Turing machines, and computability. **P: CSC 421.**
- CSC 533 Programming Languages (3) II**
A survey of modern languages, including their design and implementation. Specific topics include declarative programming, procedural programming, scripting, syntax and semantics, memory management, data types, and control structures. **P: CSC 321.**
- CSC 538 Computer Networks (3) OD**
A study of the foundational techniques of computer networking, with special emphasis on current technologies and architectures. Specific topics include local area networking, network topologies, file services, and security. **P: CSC 414.**
- CSC 539 Operating Systems (3) OD**
A study of the design and implementation of systems software for controlling the hardware and software components of computers. Specific topics include memory management, virtual memory, CPU scheduling, and file structures. **P: CSC 321.**
- CSC 542 Relational Database Design (3) OD**
A survey of techniques for designing and implementing databases using a relational model. Specific topics include relational algebra, SQL, normal forms, database design, concurrency control, and error recovery. **P: CSC 321.**
- CSC 548 Software Engineering (3) II**
A project-based course that utilizes industry-proven methodologies for the design, implementation, and management of software projects. Specific topics include team coordination, UML modeling, design specifications, version control, reusability, and testing. **P: CSC 321.**
- CSC 550 Artificial Intelligence (3) OD**
A survey of foundational concepts and current research in artificial intelligence. Specific topics include knowledge representation, search methods, expert systems, machine learning and perception, neural networks, and emergent systems. **P: CSC 421.**
- 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) OD**
This course covers the algorithms and technology for developing and manipulating graphical images on a computer. Topics include graphics display devices, digital storage, interactive versus passive graphics, and the mathematics of 2-dimensional and 3-dimensional transformations. **P: CSC 421.**
- CSC 581 Mobile App Development (3)**
This project-based course presents the fundamental concepts and techniques of mobile application development. Specific topics include modern design methodologies, mobile resource limitations, development tools, and project management. **P: CSC 221.**
- CSC 590 Special Topics (3)**
This course provides an in-depth examination of one or more current topics in computer science, through a combination of lecture, discussion and student presentations. **P: IC.**
- CSC 599 Senior Capstone (3)**
A survey of foundational concepts and current research in artificial intelligence. Specific topics include knowledge representation, search methods, expert systems, machine learning and perception, neural networks, and emergent systems. **P: Sr. stdg. or 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** (Same as PSY 540)
A survey of the counseling process including the role of the counselor, characteristics of clients, helping and referral skills, and theories of counseling. The Code of Ethics supporting the profession is introduced. **P: Sr. stdg.**
- COU 542 Seminar in Counseling (1) I**
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: Sr. 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 (Same 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.

DANCE

For the Dance Program of Study, please refer to page 146.

- 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 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. **P: Three years of dance study.**
- DAN 111 Dance Studies II (3) I, II**
Continuation of DAN 110. **P: Three years of dance study.**
- DAN 112 Dance Studies III (3) I, II**
Continuation of DAN 111. **P: Three years of dance study.**
- DAN 121 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 credits. **P: Three years of dance study.**
- DAN 131 Tap/Jazz (1) I, II**
The further study of Jazz technique and tap fundamentals. May be repeated to a total of three credits. **P: Three years of dance study.**
- DAN 141 Ballet (1)**
The study of ballet technique to include ballet vocabulary and fundamental ballet principles. May be repeated to a total of three credits. **P: Three years of dance study.**
- 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 credits
- 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 credits.

- 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.
- 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 two grades of the Imperial Society of Teachers 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 Imperial Society of Teachers 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 131 or 153.**
- 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 391(151) Production Practicum (1-2) I, II (Same as THR 391)**
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 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 majors and minors). Student to perform dancing roles during the semester or year. One credit represents two semesters of work. (One of those semesters may be in technical support). 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 major and minors). Student required to perform dancing roles in two public dance performances. 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 Goss, Murthy and Wingender (Chair); Associate Professor Deskins; Assistant Professors Brayman, Briggs, and Knudsen; Professor Emeritus Nitsch; Instructor Bastian.

Requirements for Economics as the Field of Concentration - see page 232.

- 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) II**
 This course deals with the development of economics from its earlier scholars such as the Greek political economists, Mercantilists, Physiocrats, Classical economists, and the Marginalists including recent contributions of the Keynesians, Institutionalists, and the Monetarists. The course critically examines chronologically, the impact of changing social, political and economic conditions on evolution of economic thoughts. **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.**

EDUCATION

For the Education Program of Study, please refer to page 123.

- 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: Limited to freshman and sophomore stdg. only.**
- EDU 102 Decision Making Strategies Through Self Assessment (1) I, II**
EDU 102 is an abbreviated version of EDU 101 and focuses on comprehensive self assessment of values, personality, interests, skills and talents combined with decision making methodology for career and life choices.
- 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 208 Understanding and Serving Diverse Populations in Education (3) I, II**
Course designed to provide teacher educators with an understanding of and skills to serve students and their families in a pluralistic society. Topics include cultural diversity foundations, diverse populations, and diversity issues impacting education and learning. This course meets the human relations requirement of the Nebraska Department of Education. A total of 35 clock hours of K-12 classroom aiding required in conjunction with EDU 208 or 210. **P: EDU 103 and a background check; DC and 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, 208, 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. A total of 35 clock hours of K-12 classroom aiding required in conjunction with EDU 208 or 210. **P: EDU 103; DC and CO: EDU 207 or 208.**
- 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 315 World Geography (3) I, II**
World patterns of land and water distribution, landforms, climatic regions, population and natural resources, socio-economic implications. **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) 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 or 208, 210; Jr. stdg, Adm. to Dept. CO: EDU 342, 525; DC.**
- EDU 342 Technology Laboratory in Secondary Education (1) 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 or 208, 210; Jr. stdg. CO: EDU 341.**
- EDU 345 Philosophy for Children (3) (Same as PHL 345)**
This course introduces a curriculum aimed at fostering creative and critical thinking for children. Philosophy begins in wonder. This course seeks to reawaken the sense of wonder and protects children's capacity of questioning. A careful examination on the issue from both the theory and practice of doing philosophy with children will be involved. **P: PHL 107, and one of the following: PHL 201, PHL 250, PHL 312, or PHL 320.**
- EDU 450 Violence in America: Nature, Consequences and Personal Responses (3) (Same as SRP 450)**
This course explores some of the many forms of violence in America and the nature of violence as a social, cultural, and legal construct. The nature and consequences of American violence will be studied with an emphasis on understanding the dynamics and then formulating ethically appropriate personal responses. **P: Sr. stdg. and PHL 250 or THL 250.**
- 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 565/566 or 568/569; DC.**
- EDU 463 Communication Consulting (3) AY (Same as COM 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 470 Poverty in America (3) (Same as SRP 470)**
The intent of this course is to provide students with an understanding of the cultural, economic and political structures of an impoverished society, to understand the dilemmas inherent in poverty and to develop an attitude of sensitivity and connectedness with those in this plight. **P: PHL 250 or THL 250; Sr. stdg.**
- 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: PHL 250 or THL 250; 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) I, II**
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 566, DC.**
- EDU 501 Psychology of Exceptional Children (3) S**
A multidisciplinary and life span approach to the study of persons with differences. **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, OD**
This course focuses on the history and philosophy of Catholic schools. Students will study how Catholic schools have evolved over time as well as examine how their history might inform their future. Church documents will serve as the primary sources for student engagement of Catholic school mission and philosophy. Throughout the course students will apply theory to practice. **P: DC.**
- 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. **P: DC; CO: EDU 565/566 or 568/569 or 341 or 551.**
- EDU 526 Multicategorical Methods for the Mildly Handicapped (3) I, ONY**
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, DC.**
- EDU 527 Diagnostic and Prescriptive Teaching of the Mildly and Moderately Handicapped Child (3) II, ONY**
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, DC.**
- EDU 528 Speech and Language Development of the Exceptional Child (3) I, ENY**
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., DC.**
- EDU 529 Seminar in Consultation and Collaboration Strategies (3) II, ENY**
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, DC.**
- EDU 530 Elementary 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 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 591, 593, or initial teaching certificate; Sr. stdg., DC.**

- 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 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 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) OD**
 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, 593, Sr. stdg. or initial teaching certificate; DC.**
- 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 P-12 school setting for a minimum of 150 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; P or CO: EDU 541, 542, 544, and 645.**
- EDU 544 Framework of World Languages and Cultures (3) OD, S**
 Students will examine and compare cultural and language frameworks from world regions in order to understand the cultural and/or language dissonance experienced by limited or non-English speaking individuals in the United States.
- 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 better develop a student's reading skills and abilities while utilizing content materials. **P or CO: EDU 341/342 or 551/552, 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: DC, P or CO: EDU 503, 510, 583.**
- EDU 552 Technology Instruction for Secondary Teaching (1) I**
 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 563 Assessing Organizational Systems (3) OD**
 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 565(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 565/566). **P: EDU 103 or 503, EDU 210 or 510, DC; CO: EDU 566.**
- EDU 566(311) Methods of Teaching of Elementary 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. Students complete a minimum of 32 hours of practicum in a school classroom (EDU 565/566). **P: EDU 103 or 503, EDU 210 or 510, DC; CO: EDU 565.**
- EDU 567(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 or 503, EDU 210 or 510; DC.**
- EDU 568(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 568/569). **P: EDU 103 or 503, EDU 210, or 510, DC; CO: EDU 569.**
- EDU 569(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 568/569). **P: EDU 103 or 503, EDU 210 or 510, DC, CO: EDU 568.**
- EDU 575 Action Research in Your Content Area (3) I**
 The purpose of the course is to give students a working knowledge of educational research methods and secondary teaching methods within a content area. Students will explore best practices in teaching secondary content areas using site based interviews, literature reviews, and a variety of classroom activities. This course includes a 25 hour practicum experience in a local school, which is an integral part of this course. **P: DC; P or CO: EDU 341 and 342 or EDU 551 and 552 or DC.**
- EDU 576 Special Methods of Teaching Art in the Secondary School (3) OD**
 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: DC; 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) OD**
 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: DC; 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) OD**
 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: DC; 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) OD**
 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: DC; P or CO: EDU 341 and EDU 342 or EDU 551 and EDU 552.**
- 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 341 or EDU 503 or 565/566 or 568/569 or DC. Graduate standing required or DC for summer offering.**
- 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) OD (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) OD**
 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 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. **Secondary: P: EDU 341-342 or EDU 551-552, EDU 548, EDU 525, EDU 583 EDU 575, CO: EDU 593. Elementary: P: EDU 500, 525, 565, 566, 567, 568, 569, 583; CO: EDU 593; DC.**
- EDU 593 Student Teaching Seminar (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 issue of the *Creighton University Bulletin*.

EMERGENCY MEDICAL SERVICES

Professor Braden (Dean, University College); Assistant Clinical Professor Walker (Medical Director); Associate Professor Raynovich; Instructor 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 261). 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 213 Human Anatomy for Pre-Pharmacy Students (3)

Pre-pharmacy students will learn cellular, tissue, organ and system level anatomical structures, with emphasis on using anatomical knowledge as a foundation for pharmaceutical care. **P: BIO 211 or BIO 212 (both preferred).**

EMS 215 Medical Terminology (1)

Medical Terminology is a critical part of language and communication used by health care practitioners. This self directed course is designed for students planning a career in the health services and related fields. Course content includes a study of basic medical terminology. Students will construct and decipher terms using prefixes, suffixes, word roots, combining forms, special endings, plural forms, and abbreviations related to body systems, cavities, planes, and positions. Competency is evaluated throughout the semester through online testing.

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 I (3-6)**
 This is an introductory transition course for paramedics that have been previously trained at other programs. Instruction in this course is individually designed based on the accreditation status of the instruction students have received at other programs, including the curriculum, clinical experience and history of licensure and certification. During this course, the faculty will conduct a comprehensive assessment of the student focusing on assuring that all students have the fundamental knowledge, affective and psychomotor skills necessary to progress to full entry-level competency and practice as a Nationally Registered and State-licensed Paramedic. May be repeated to a limit of 18 hours. **P: DC**
- EMS 451 Paramedic Certificate-to-Academic Transition II (3-6)**
 This is an intermediate level course that is intended to build on the fundamental knowledge and skills achieved in the EMS 450 Academic Transition I Course. Instruction in this course is intended to have the students achieve practice proficiency in all paramedic treatment modalities. **P: EMS 450.**
- EMS 452 Paramedic Certificate-to-Academic Transition III (3-6)**
 This is an advanced level course that is designed for the paramedic that has achieved entry-level proficiency in all areas of paramedic practice. In this course, the concepts of evidence-based paramedic practice and evaluation of the practices, literature, concepts and theories related to field and clinical practices will be explored. Students that complete this course will be prepared to serve in EMS leadership positions with community services and regulatory agencies. **P: EMS 451.**
- EMS 455 Paramedic Clinical Transition (3-6)**
 This is an Introductory Clinical Course for Paramedics that have been trained at other programs. Fundamental clinical practice skills are assessed in laboratory settings and practical laboratory scenarios. Students that demonstrate fundamental knowledge, affective and psychomotor competencies will be scheduled for hospital and field experiences. May be repeated to a limit of 18 hours. **P: DC**
- EMS 456 Paramedic Clinical Transition II (3-6)**
 This is an Intermediate Clinical Course for Paramedics that have demonstrated competency in all psychomotor skills in laboratory, hospital and field settings. Students will be assigned to hospital and field clinical units with the goal of achieving psychomotor proficiency in all areas of field and hospital clinical skills. **P: EMS 455.**
- EMS 457 Paramedic Clinical Transition III (3-6)**
 This is an Advanced Clinical Course for Paramedics that have demonstrated proficiency in all psychomotor skills in hospital and field settings. Students will be assigned to field and hospital rotations with the intent of demonstrating clinical proficiency and team leadership capabilities in all areas of hospital and field clinical practices. **P: EMS 456.**
- 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 475 Critical Care Paramedic Preparatory (2)**
 This course is designed to introduce complex critical care concepts to prepare students for a comprehensive critical care paramedic course. Content will focus on laboratory diagnostics and analysis, principles of hemodynamic monitoring, and basic 12-Lead ECG interpretation. **P: DC; currently licensed paramedic.**
- EMS 479 Special Topics in EMS (1-3) OD**
 Exploration and analysis of problems and topics in today's EMS environment. May be repeated to a limit of 12 hours. **P: IC.**

- 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: EMS 475 or 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 127.

- 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.**

ENERGY TECHNOLOGY

For the Energy Technology Program of Study, please refer to page 128.

- ERG 131 Installation and Maintenance of Photovoltaic Systems (3)**
Design, installation and maintenance of commercial and residential solar arrays. May be taught in collaboration with Metropolitan Community College.
- ERG 132 Convection and Passive Solar Energy Systems (3)**
Design, installation and maintenance of convection and passive solar heating. May be taught in collaboration with Metropolitan Community College. This course provides a working knowledge of solar warm air systems. Topics will include collector design and placement, principles of heat transfer and air movement, ventilation and register placement, blower selection, controller function, and electrical safety.
- ERG 211 Design and Rapid Prototyping Lab I (1)**
Engineering design component of an interdisciplinary course in design and rapid prototyping. Introduction to the principles of green design. Computer aided design and rapid prototyping techniques in an applied setting. Introduction to user requirements documents and the design review process. **CO: COM 153 and ENG 151; P or CO: MTH 245 or AP Calculus.**
- ERG 212 Design and Rapid Prototyping Lab II (1)**
Engineering design component of an interdisciplinary course in design and rapid prototyping. Design skill enhancement using CAD software and presentation with digital media. Rapid prototyping applied to sustainable energy or related project. **P: MTH 245; CO: JRM 202.**
- ERG 241 Introduction to Energy Transfer (3)**
Introduction to energy flow and Thermodynamics. Review of work, energy and efficiency. Methods of heat transfer: conduction, convection, radiation. Heat capacities: specific heat, latent heat. Laws of Thermodynamics. Entropy. Spontaneous processes. **P: MTH 245 and one of the following: PHY 157, PHY 211, PHY 221, CHM 203, ERG 132.**

- ERG 251 History and Technology in the Modern World (2)**
Materials Science component of an interdisciplinary course in Modern History and technology. Atomic and molecular bonding, structure of materials, imperfections, and thermal and mechanical properties of materials. Diffusion, phase transitions, material microstructures, nucleation and growth, solidification, and strengthening mechanisms. Composition, structure, properties, and performance of modern materials. **P: MTH 245; CO: HIS 110.**
- ERG 301 Modeling Electrical Load and Yield (3)**
This course is designed for students in the Energy Technology program. Basic principles associated with modeling and forecasting electrical load and potential yield will be explored through a series of project based laboratory exercises. These exercises will introduce students to the basic environmental parameters that determine electrical demand and the yield of solar panels. **P: MTH 245 or AP Calculus.**
- ERG 311 Design and Rapid Prototyping Lab III (1)**
Engineering design component of an interdisciplinary course in design and rapid prototyping. Design and prototyping project for technical users. **P: ERG 211; CO: COM 154 and ENG 152.**
- ERG 312 Design and Rapid Prototyping Lab IV (1)**
Engineering design component of an interdisciplinary course in design and rapid prototyping. Design and prototyping project for non-technical users. **P: ERG 311, ENG 152, COM 154); CO: COM 155 and ENG 153.**
- ERG 321 Introduction to Solar Energy (3)**
This course develops a thorough understanding of the scientific principles involved in the production of electricity from solar radiation. Solar radiation, the function of solar cells, DC and AC circuits and the storage and transmission of electrical energy are covered. Economic and policy issues related to solar energy are introduced. **P: ERG 241 or PHY 212 or PHY 221.**
- ERG 351 Energy Policy (3)**
Tools for economic, social impact and political analyses will be considered. Student teams present cases for specific energy sources examining public policies in the US and abroad. The class will attempt to reach consensus on a policy proposal that will be reviewed by a panel of government and energy experts. **P or CO: ERG 241.**
- ERG 361 Internship (3)**
This is semester- or summer-long experience in professional energy- or sustainability- related setting. With the assistance of the internship supervisor students will identify their personal learning objectives. **P: ERG 312 or IC.**
- ERG 481 Senior Project in Energy Studies I (3)**
First semester of a formal year-long engineering, research or community service project done in under the guidance of a faculty member and course coordinator. Students may conduct advanced research, perform policy analysis, develop experimental prototypes, design new products, redesign existing products or engage the community in a significant sustainability effort. **P: Sr. stdg. and ERG 312, ENG 153, COM 155.**
- ERG 482 Senior Project in Energy Studies II (3)**
First semester of a formal year-long engineering, research or community service project done in under the guidance of a faculty member and course coordinator. Students may conduct advanced research, perform policy analysis, develop experimental prototypes, design new products, redesign existing products or engage the community in a significant sustainability effort. **P: ERG 481.**
- ERG 493 Directed Independent Readings (1-3)**
A readings project under the guidance of a member of the faculty. The project may be in the areas of design engineering, electronics engineering, architectural engineering or sustainable energy. **P: IC.**
- ERG 495 Directed Independent Study (1-3)**
A study project under the guidance of a member of the faculty. The project may be in the areas of design engineering, electrical engineering, architectural engineering or sustainable energy. **P: IC.**

- ERG 497 Directed Independent Research (1-3)**
A research project under the guidance of a member of the faculty. The project may be in the areas of design engineering, electronics engineering, architectural engineering or sustainable energy. **P: IC.**
- ERG 521 Introduction to Photovoltaic Materials (3)**
This course is designed as an introduction to photovoltaic materials including silicon, organic and other n-and p-type semiconductors. Sufficient scientific theory relating to the operating principles of photovoltaic devices is covered to give an appreciation of both the strengths and weaknesses of current solar cell technologies. **P: ERG 321, PHY 222 and ERG 251 or IC.**
- ERG 551 Grants and Funding for Sustainable Technology (3)**
P: Jr. stdg.
- ERG 595 Special Topics in Energy Studies (3)**
A course treating topics of special interest. This course will be subtitled in the Schedule of Courses and may be repeated under different subtitles. The course may be in the areas of design engineering, electronics engineering, architectural engineering or sustainable energy. **P: IC.**
- ERG 597 Computer Models for Short Term Weather Forecasting (3)**
Independent research and study course in Atmospheric Science and Energy Science. Students will work on computational models for weather short term weather forecasting. Students will work with advanced meteorological software and multi-node processors applied to projected wind and solar energy production and questions of peak electric utility demand. **P: ERG 301 or IC.**

ENGLISH

For the English Program of Study, please refer to page 131.

- ENG 100 Introduction to Composition (3) I**
Individualized approach to skills and strategies of expository writing. **P: Placement only.**
- 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 151 Design and Rapid Prototyping Lab I (1)**
Communication studies component of an interdisciplinary course in engineering design and rapid prototyping. An introduction to the process by which messages are formulated and delivered to influence decision-making. Emphasis on acquiring common analytic approaches to message preparation, uses of evidence, patterns of inference and the selection and presentation of judgments. **CO: ERG 211 and ENG 151.**
- ENG 152 Design and Rapid Prototyping Lab III (1)**
Composition component of an interdisciplinary course in engineering design and rapid prototyping. Emphasis on strategies of composition, including invention, organization and development, sentence and paragraph structuring. Focus on technical writing. **P: ENG 152. CO: ERG 311, and COM 154.**

- ENG 153 Design and Rapid Prototyping Lab IV (1)**
Composition component of an interdisciplinary course in engineering design and rapid prototyping. Emphasis on strategies of composition, including invention, organization and development, sentence and paragraph structuring. Focus on writing for general audiences. **P: ENG 152. CO: ERG 312 and COM 155.**
- 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**
The ENG 251 course offers an intensive immersion into compositional areas that extend from, or are different than, those engaged in ENG 150, Rhetoric and Composition. Students will engage advanced rhetorical and compositional theory and practice, including but not limited to, multimEDIATION, advanced research, and/or other critical textual concerns. **P: ENG 150.**
- NOTE: ENG 120, 121 and 150 or equivalent are prerequisites for all ENG courses above ENG 295.*
- 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 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.
- 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 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) (Same as NAS 353)**
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 372 Western Literature of the United States (3)**
This course focuses on seminal literary texts in the Western American literary tradition as it emerged in the late-nineteenth and early-twentieth centuries and continues 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 382 History and Future of the Book (3)**
Explores the history of the book, its impact on Human cultures and literacies, and its future in a digitally-mediated age. **P: ENG 150, ENG 120 and ENG 121.**
- ENG 389 The Roaring Twenties (3) OD (Same as AMS 389)**
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 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 435 Literature, Philosophy and Economics: Critical Representations of Commercial Life** (3) OD (Same as PHL 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: Sr. 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 440 Introduction to Green Cultural Studies** (3)
This course will introduce students to the field of cultural studies as it emerged in the U.S. and elsewhere, give students a working knowledge of cultural studies as a methodological approach, and facilitate the application of this methodology to environmental texts and issues.
- 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 489 American Prisons: Punish or Reform (3) (Same as SRP 489)**
An examination of the philosophy of our social justice system and how members of the community can contribute to positive changes in the way inmates are regarded and treated. In a variety of prose writing projects, students will be expected to articulate their sense of how incarceration, punishment, and reform interrelate. Students will write about how their assumptions regarding prison and the inmates match the philosophy behind the way criminals are sentenced and the way they spend their time behind bars.
- 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 issue of the Creighton *Bulletin*.

ENTREPRENEURSHIP

Professor Workman (Chair); Associate Professor York; Assistant Professor Gallo; Instructors Mizaur and Taylor.

Requirements for Entrepreneurship as the Field of Concentration — see page 235.

ENT 312 Innovation and Creativity (3) I, II
An outcome-based course in which participants learn to recognize, analyze, and support the key determinants of individual and group creativity and innovation within a social venture context. Social innovation refers to new strategies, concepts, ideas and organizations that meet social needs of all kinds - from working conditions and education to community development and health - and that extend and strengthen civil society. By examining theoretical models and contemporary articles and cases on innovation within a social entrepreneurship framework, the course seeks to help students develop creative business options for organizing and implementing solutions to difficult problems facing the world. This course begins the social entrepreneurship major and concentration sequence and is followed by Business Planning for Social Entrepreneurs. **P: Soph. stdg.**

ENT 314 Business Planning for Social Entrepreneurs (3) I, II
An outcome-based course in which participants learn to create a workable social venture business plan for solving a problem facing the community, society or world. This plan will include a concept statement, market analysis, organization structure, financial budget, and time line for establishing a new venture to accomplish this social purpose. The plan can be for establishing either a profit or not-for-profit organization to accomplish the desired goal or to work with an existing social venture to initiate a new venture or growth. This course caps the social entrepreneurship major and concentration sequence. **P: ENT 312; Jr. Stdg.**

ENT 316 Social Entrepreneurship Incubator (3) I, II
This course allows students who have completed ENT 312 (Innovation and Creativity) and ENT 314 (Business Planning for Social Entrepreneurs) to implement the plans devised in either ENT 314 or working in conjunction with a local social business venture, either for-profit or not-for-profit. Students develop an organization or will work with an existing organization to deliver the products or services spelled out in their plan. Students taking this course will be required to obtain any funding that is required to carry out their proposed projects. **P: ENT 312; ENT 314; Jr. Stdg.**

ENT 366 Entrepreneurship Internship (3) I, II
This course is designed to give credit to students for major-related significant practical experience working in entrepreneurial businesses or nonprofits. 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 internships; 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 satisfactory/unsatisfactory and only 3 hours of internship credit may be used to satisfy graduation requirements.

- ENT 479 Seminar in Entrepreneurship (3) I, II**
Exploration and analysis of selected problems, topics and issues in today's entrepreneurial environment. Course content changes from semester to semester. This course is repeatable as long as topic differs.
- ENT 497 Directed Independent Research (1-3) I, II**
Supervised independent research on topics beyond the regular course coverage. Course is limited to students who have a QPA or 3.0 or better. **P: Sr. stdg; DC and Dean's approval.**
- ENT 502 Finance for Entrepreneurial Ventures (3) II**
This course is designed to provide students with an exposure to financial concepts in entrepreneurship from both a theoretical and managerial perspective. It is available to graduate students as well as undergraduate students majoring or minoring in social, bioscience, or general entrepreneurship. In the course, students will be introduced to the differences between cash budgeting and financial accounting and will learn to read and interpret financial statements, understand different methods of valuing a start-up company, and be trained to identify a variety of funding mechanisms that are relevant to financing startup and growth, including grants, debt, and equity. Differences in technology and not-for-profit from more traditional businesses will also be explored. **P: So. Stdg.**
- ENT 518 Bioscience Technology Commercialization (3) II**
This course is the first in a two course sequence designed to educate upper level undergraduate and graduate students in law, science, health science and business about commercializing technology in the biosciences. As such, it focuses on working in interdisciplinary teams to understand the invention and research process, public policy issues, market and demographic trends, commercialization channels, intellectual property protection, organizing to produce bioscience products, FDA and other regulation, insurance reimbursement policies, venture financing, and other topics relevant to this process. **P: Jr. stdg.**
- ENT 520 Business Planning for Bioscience Ventures (3) I**
This course is designed to allow law, science, health science and business students who have successfully completed ENT 518, Bioscience Technology Commercialization to continue to build on the technology commercialization skills learned in the first course of the Bioscience Entrepreneurship Program by working in interdisciplinary teams to research, create and present commercialization plans for research or inventions from Creighton University, the University of Nebraska Medical Center, and local Omaha-area inventors, including but not limited to students in the class. **P: ENT 518.**



ENVIRONMENTAL SCIENCES

For the Environmental Sciences Program of Study, please refer to page 136.

- 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 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 AMS 355, 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 424 Sustainability and Rural America** (3) (Same as ANT 424, NAS 424, SRP 424, SOC 424)
This interdisciplinary course studies sustainability and the diverse cultures of rural American peoples by looking at topics such as ethics, environmental resources, economic strategies, public policy and social inequality. This course offers off-campus field observation and ethical reflection assignments and involves students in active collaborative problem-solving research. **P: PHL 250 or THL 250; Sr. stdg.**
- EVS 435 Coastal and Estuarine Ecology** (4) S, AY (Same as BIO 435)
Coastal and Estuarine Ecology is a 3 ½ week, intensive travel course. Participants experience, first-hand, the great diversity of marine ecosystems of the Gulf of Mexico, Tropical Atlantic, and Southeastern Atlantic regions. The class will examine tropical coral reef, sea grass, and mangrove communities, barrier islands (salt marshes, beaches, mudflats), and diverse open water habitats (lagoons, bays, tidal creeks and rivers, and near-shore shelf waters). The course emphasizes physical, chemical, and biological concepts applied to coastal habitats, with an emphasis on adaptations of marine organisms to their environments, ecological relationships, sampling methods and site characterizations, and threats to coastal ecosystems. The class stays at nationally recognized oceanographic and coastal field stations in Florida, Georgia, and Mississippi. The Creighton 18' Sundance Skiff and field station boats serve as work platforms and provide access to various habitats. **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 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 454 Environmental Philosophy** (3) (Same as PHL 454)
Examination of a variety of theoretical approaches to philosophical issues concerning individual organisms, species, ecosystems, and the biosphere. Aesthetic, axiological, epistemological, and ontological issues may be addressed. **P: PHL 107, and one of the following: PHL 201, PHL 250, PHL 312, or PHL 320.**
- 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) I, II
All Environmental Science majors must take this course twice 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 four credits. **P: Jr. 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 credits. **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 credits. **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 credits. **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 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 CO₂ 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 539 Ecology of Zoonotic Diseases** (3) (Same as BIO 539)
Over the past few decades there has been a resurgence of zoonotic diseases such as SARS and Avian Influenza. Why do zoonotic diseases emerge, and what factors lead to epidemics? This course will address these questions, and apply an ecological approach to an understanding of epidemiology in wildlife populations. **P: BIO 211 and 212 and one of the following: BIO 351 or BIO 390 or BIO 432 or BIO 481.**
- 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 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 570 Introduction to Geographic Information Systems** (4) II, ENY (Same as AMS 570, ANT 570, SOC 570)
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 312 or IC.**
- 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 580 Current Topics in Ecology** (3) (Same as BIO 580)
The focus of this course will be advanced topics in ecology, with an emphasis on the concepts and current approaches in ecosystem ecology. Primary literature will serve as a key resource for students. The structure and function of several model ecosystems will be explored in detail, with particular attention to the concepts of biodiversity, productivity, decomposition and nutrient cycling. In addition, the degree of human alteration of ecosystem structure and function as well as consequences for global ecological processes will be presented. **P: EVS 390 or 481 or 485.**

- 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 issue of the Creighton University Bulletin.

EXERCISE SCIENCE

For the Exercise Science Program of Study, please refer to page 140.

- 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**
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. Students should expect to pay an additional fee for first aid supplies used.
- 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, and circuit training. 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 161 Life Skills for Student Athletes (1) I, II**
This course is designed to educate student-athletes in the dynamics of intercollegiate athletics through participation in all aspects of their respective sport, including conditioning, team drills and activities, academic enrichment, community service, and life skills training. Graded Satisfactory/Unsatisfactory.
- EXS 195 Introduction to Athletic Training (3) I, II**
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**
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, nutrition, prevention, exercise injuries and risk factors associated with cardiovascular disease. Two lectures and two activity sessions per week.
- EXS 305 Therapeutic Modalities (3) OD**
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: EXS 195, 331 or IC.**
- EXS 306 Therapeutic Exercise (3) OD**
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: EXS 195, 331 or IC.**
- EXS 310 Practicum in Exercise Science (1) I, II**
Depending upon area of interest, provides students with practical experience in areas such as athletic training, fitness testing, personal training, strength and conditioning, and wellness programming with professionals affiliated with Creighton University. May be repeated three times. **P: EXS major, Jr. stdg. and dept. approval.**
- EXS 320 Human Physiology (4) I, II, S**
An undergraduate human physiology course providing detailed coverage on the normal function of the human organ systems, while also incorporating discussion on physiological changes with physical activity and certain diseases. Information is presented from the cellular level to the entire organism. **P: BIO 211 or 212; CHM 203/204 or 205/206; EXS major or IC.**
- EXS 331 Human Anatomy (4) I, II, S**
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 major or IC.**
- EXS 334 Biomechanics (3) I, II**
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: EXS 331, EXS major, or IC.**
- EXS 335 Exercise Physiology (4) I, II**
Study of the major physiological systems in the body and their response to acute and chronic exercise. Students will be introduced to laboratory techniques to assess body composition anaerobic power and cardiovascular fitness. **P: BIO 211 or 212; CHM 203/204 or 205/206, EXS 240 and EXS 320 or IC; EXS major.**
- EXS 350 Nutrition for Health and Sports Performance (3) I, II**
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: EXS 320; EXS 335; EXS major or IC.**
- EXS 395 Lower Body Evaluation (3) OD**
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 placed on emergency management. **P: EXS 195, 331 or IC.**
- EXS 396 Upper Body Evaluation (3) OD**
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 placed on emergency management. **P: EXS 195, 331 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, OD**
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 335; EXS Major or IC.**
- EXS 420 Essentials of Strength and Conditioning (3) 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 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/AED certification.**
- EXS 491 Exercise Leadership and Program Administration (3) I, II**
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 major.**
- EXS 492 Exercise Science Internship (3-5) I, II, S**
Students are to spend 20 hours per week working in one of several areas as such as: strength training and conditioning; employee/corporate fitness; or in one of the allied health professions (e.g., physical therapy, medicine, physician assistant, cardiac rehabilitation, etc.). 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: Jr. stdg., EXS major or IC.**
- EXS 493 Directed Independent Readings (1-4) OD**
May be repeated to a limit of four credits. **P: Jr. stdg.; EXS Major; IC.**
- EXS 495 Directed Independent Study (1-4) OD**
May be repeated to a limit of four credits. **P: Jr. stdg.; EXS major; IC.**
- EXS 497 Directed Independent Research (1-4) I, II OD**
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 be repeated to a limit of four credits. **P: Jr. stdg.; EXS Major; IC.**

FINANCE

Professor Wingender (Chair); Associate Professors Gasper, Jorgensen and Washer; Assistant Professor Dunham; Adjunct Associate Professor Sherman; Instructor LeFebvre.

Requirements for Finance as the Field of Concentration — see page 233.

- 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 353 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: MTH 141 or MTH 201 or MTH 245 or equivalent; ACC201, ECO 203; Jr. Stdg.**
- 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) I, II, S
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: FIN 301; Second Semester Junior or Higher Standing, IC.**
- 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.; Completion of at least 6 additional hrs. of Group VI courses required of a finance major or permission of the Department Chair.**

- 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 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 (3) W**
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 511 Retirement Planning and Employee Benefits (3) I or II**
This course focuses on retirement preparation. It includes the importance of retirement planning; an evaluation of the client's needs; an understanding of Social Security and Medicare; and qualified and non-qualified retirement plans. **P: ACC 301, FIN 340, FIN 353, or Department Chair Consent.**
- FIN 512 Estate Planning and Taxation (3) I or II**
This course focuses on the efficient management and transfer of wealth, consistent with the client's goals. It is a study of the legal, tax, financial and non-financial aspects of this process, covering topics such as trusts, wills, probate advanced directives, charitable giving, wealth transfers and related taxes. **P: FIN 353, ACC 301, or Department Chair Consent.**

- FIN 513 Life Insurance Financial Planning (3)**
This class will focus on understanding of Individual Life Insurance as a key cornerstone of the financial planning and risk management processes. This course will examine life insurance from several perspectives including insurance principles, product forms, and standard policy characteristics. This course will also cover basic concepts of personal risk management and insurance planning considerations related to the unique variations of different product designs. Examines different forms of risk-based perspectives including underwriting classifications, reinsurance, and underlying company investment and reserving issues. Concludes life insurance marketing, and understanding life insurance company accounting, financial statements and rating systems. This course covers the materials required for educational credit towards the CLU professional designation. **P: Junior stdg., ECO 203, FIN 340, or DC, elementary level skills in Microsoft Office Suite.**
- FIN 514 Planning for Business and Professionals (3)**
This class will focus on understanding the risk management issues related to the different forms of business ownership and the associated planning considerations of each. This course will cover basic concepts of risk management and insurance planning considerations related to the unique variations of different business forms and the professionals who are responsible for business management decisions. Examines different forms of business from various risk based perspectives, issues related to business continuation, and buy-sell agreements. Explores planning for business liquidation, stock redemption and disposition of business interests among partners or groups. Concludes with planning and risk management decisions associated with death and disability of owners and/or key employees, keeping businesses within families, and managing risks within closely held businesses. This course covers the materials required for educational credit towards the CLU professional designation. **P: Junior stdg., ECO 203, FIN 301, FIN 513 or DC, elementary level skills in Microsoft Office Suite.**
- FIN 558 International Financial Management (3) II**
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.**

FRENCH

For the French Program of Study, please refer to page 171.

- 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 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. 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 further develop 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) I**
Development of refined, accurate expression in speaking and writing French. **P: FRN 202 or equivalent.**

- FRN 312 Advanced French II (3) II**
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 311 or FRN 312 or IC.**
- FRN 335 French Conversation (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: FRN 311 or FRN 312 or IC.**
- FRN 412 Advanced Written French (3)**
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: FRN 311 or FRN 312 or IC.**
- FRN 522 French Civilization Before the French Revolution (3) I**
Study of the history, philosophical movements, and general cultural developments in France from the earliest times until 1789. **P: FRN 311 or FRN 312 or IC.**
- FRN 524 French Civilization After the French Revolution (3) I**
Study of the history, philosophical movements, and general cultural developments in France from 1789 to the present time. **P: FRN 311 or FRN 312 or IC.**
- FRN 525 Paris, Ville du Monde (Paris, City of the World) (3) S**
A travel course designed to offer 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. Course conducted in English. **P: IC only.**
- FRN 530 Introduction to Literary Analysis (3) I**
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 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: FRN 311 or FRN 312 or IC.**
- 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: FRN 311 or FRN 312 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: FRN 311 or FRN 312 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: FRN 311 or FRN 312 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: FRN 311 or FRN 312 or IC.**
- FRN 548 French Literature: 19th Century (3)**
From “Le Génie du Christianisme” to Naturalism; the most important literary movements; Romanticism, Parnasse and Symbolism, Realism and Naturalism. **P: FRN 311 or FRN 312 or IC.**
- FRN 549 French Literature: 20th Century (3)**
Study of works 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: FRN 311 or FRN 312 or IC.**

FRN 550(398) La littérature francophone africaine (3)

A survey of major classic and contemporary works by writers from Francophone Sub-Saharan Africa. Special emphasis is placed on the relationship between history/society and literature, tradition and modernity, colonization and decolonization. **P: FRN 311 or FRN 312 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 554 Le Roman français (3) OD

Students will study the evolution of the French Novel, gaining awareness and understanding of the major personalities, events, ideas, and institutions that have shaped the French novel from Medieval times to the mid-20th Century. Refinement of advanced language skills: speaking, writing, reading, and listening. **P: FRN 311 or FRN 312 or IC.**

FRN 557 French Poetry (3) I

Close examination and study of selected works from the Middle Ages to the present. **P or P: FRN 311 or FRN 312 or IC.**

FRN 564 History of the French Language (3) OD

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: FRN 311 or FRN 312 or IC.**

FRN 572 French Cinema (3) OD

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 Lumière Brothers through contemporary productions. Historical, aesthetic, and technical aspects of cinematography will be discussed. **P: FRN 311 or FRN 312 or IC.**

FRN 575 (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 599 Senior Seminar (3) II

A senior capstone course integrating knowledge and skills acquired within the major. All language skills are refined, as depth and nuance are added to the understanding of French and Francophone literatures and cultures. Students will submit an individual research project and a reflective essay examining how their project serves as the culmination of their French and Francophone studies. **P: IC only.**

GERMAN

For the German Program of Study, please refer to page 173.

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

Course designed to help students make the transition to natural communication and to further develop 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 303 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 or IC.**
- GER 304 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 303 or IC.**
- 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) I**
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 303 and GER 304 or IC.**
- GER 335 German Conversation (1)**
This course is designed to improve the speaking and understanding skills of 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 374 History of 19th-Century Philosophy (3) OD (Same as PHL 374)**
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- GER 401 The European Union (3) AY (Same as PLS 401)**
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.**
- 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 459 Marxism (3) OD (Same as PHL 459, 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.**
- 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 studies. Limit of three semester hours. **P: IC only.**
- GER 497 Directed Independent Research (3) OD**
Intended for individual seniors who wish to conduct research and write a major paper about a topic in the field of German studies. Limit of three 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 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 strategies used to marginalize or break down marginalization in social contexts. Students will discover how these groups find expression in German society and what strategies they 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 marginalized groups. **P: One 300-level GER course or IC.**
- GER 572 Reading German Films (3)**
This course offers an introduction to 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.**

GRAPHIC DESIGN

For the Graphic Design Program of Study, please refer to page 161.

- GDE 380 Graphic Design I (3) I, II, S**
The course introduces design of the printed page using typography, photographs and graphics. Students learn through hands-on computer assignments and critiques. **P: JRM 215.**
- GDE 381 Graphic Design II (3) I, II**
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. **P: GDE 380.**
- GDE 382 Web Design (3) I, II, S**
The course introduces the design of online publications, including elements of online layout, typography, and graphics to create well-designed web sites. **P: JRM 215 and CSC 121.**
- GDE 390 Concept Sketch Development (3)**
This course explores the creation of digital concept sketches from storyboards and websites to product design and branding concepts. Each student will be issued an iPad and work will be created digitally.

- GDE 423 Multimedia Design (3) I**
The course examines interactive media aesthetics and concerns. The course explores techniques in designing multimedia for the Web and mass media distribution. **P: GDE 382.**
- GDE 424 Typography and Advanced Projects (3) I, II**
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 convergent and hand-rendered typography. **P: GDE 380.**
- GDE 425 3D Graphics and Animation (3) II**
An advanced 3D computer graphics and animation course that builds on the design and illustration concepts developed in the fundamental graphic design courses. Students will learn to develop illustrations in a three dimensional space and learn the basics of 3D animation. **P: Jr. stdg. or IC.**
- GDE 599 Senior Capstone (3)**
The Graphic Design Senior Capstone course is designed specifically for graphic design majors. All students will create a major design project that integrates and demonstrates the various visual communication skills they have learned over the course of the major. The project will include written proposals and several stages of group presentation and critique. The project will include materials both online and printed, and should have a collaborative component that involves working with either a client or another student on a large scale project. Additionally, students will reflect on their experience in a blog setting, and engage in critical discussion on current professional practices and projects. **P: Sr. stdg. or IC.**

GREEK

For the Greek Program of Study, please refer to page 116.

- 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) S**
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 completed in GRK 101 and 102. **P: GRK 102 or GRK 115 or equiv.**
- GRK 300 Introduction to the Ancient Mediterranean World (3) I** (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. **P: GRK 201 or equiv.**
- GRK 303 Greek Prose Composition (3) II, AY**
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: GRK 201 or equiv.**

- GRK 400 Archaic Greek Authors (3)**
Students will read authors of the Archaic period (such as Homer, Hesiod, or individual lyric poets). This course may be repeated to a max of six credits. **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 may be repeated to a max of six 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). This course may be repeated to a max of six credits. **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 may be repeated to a max of six credits. **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 may be repeated to a max of six credits. **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 six credits. **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). This course may be repeated to a max of six 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 six 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). This course may be repeated to a max of six 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). This course may be repeated to a max of six 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. This course may be repeated to a max of six 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). This course may be repeated to a max of six credits. **P: GRK 201 or equiv. and LAT 201 or equiv.**
- GRK 493 Directed Independent Readings (2-4) I, II, S**
Designed to meet the special needs of qualified students. Credit by arrangement. This course may be repeated to a max of six credits. **P: DC.**
- 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 Healthcare Administration (3) I, II**
An introduction to managerial and administrative issues in healthcare. Administrative components of the healthcare 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 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 and ACC 201.**
- HAP 312 (212) Quantitative Methods in the Social Sciences (3) I (Same as ANT 312, SOC 312)**
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 314 (214) Statistics for the Social Sciences (4) II (Same as ANT 314, SOC 314)**
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 312.**
- HAP 315 (215) Healthcare, Society and Culture (3) I (Same as ANT 315, SOC 315)**
Study of the relationship between society and healthcare 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 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 Healthcare (3) II (Same as PLS 334)**
Review of government policies and programs as they affect healthcare 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 350 The Essentials of Public Health (3)**
Essentials of Public Health is designed to provide the student with theoretical perspectives in public health, and skills and knowledge associated with the primary functions of public health at the local, state, national and global level. Students will use basic principles of evidenced-based public health, epidemiology and the demographic measurement of populations and groups to examine the distributive factors of health and disease needs in population. Enduring understandings of public health history, interventions, laws, communication, health systems, environment and behavior change will be addressed.
- HAP 355 Essentials of Epidemiology (3) (Same as MTH 355, STA 355)**
This course introduces the concepts and includes exercises related to epidemiology, the discipline that serves as the basic science of public health, or population health, by providing evidence for defining the public health problem, assessing causation, and evaluating effectiveness of potential interventions.

- HAP 383 Cultural Epidemiology: Global Perspectives (3)** (Same as ANT 383)
Cultural epidemiology addresses the structural and cultural determinants of health, and integrates methods, theories, and debates in both epidemiology and medical anthropology responding to health needs on an international scale. The course introduces students to methods for health research, concepts of health and disease, and strategies to alleviate ill health.
- 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 healthcare situations. The course emphasizes understanding communication variables such as verbal, non-verbal, conflict, listening, and self-disclosures in healthcare contexts. The course also examines issues of ethics and relationships between healthcare providers, patients, and families.
- HAP 410 Seminar in Health Administration (3)**
Selected advanced topics in health administration. May be repeated for six credits as long as the topic differs.
- HAP 411 Seminar in Healthcare Administration: Healthcare Planning and Marketing (3)**
This course will cover planning and marketing processes common in the health care industry. Emphasis will be placed on strategic and business planning, marketing systems and project promotion. Students will use basic financial, marketing and statistical skills and will research a planning or marketing project in an Omaha health care organization.
- HAP 412 Information Systems in Health Care Management (3)**
This course examines the information system concepts as applied in the management of healthcare organizations. Our primary goal is to learn and understand information systems, and to practice applying information systems in the healthcare environment.
- HAP 413 Service Excellence and Human Resources in Healthcare (3)**
This course is designed to expose students to the concept of healthcare "service excellence" and give an overview of the multiple aspects of healthcare human resources. The goal is to build a knowledge base of these topics and develop skills that will easily transfer into the student's future workplace.
- HAP 414 Careers in Health Administration (3)**
This course is designed to expose students to career and leadership opportunities in today's healthcare industry (e.g., hospitals, long-term care, physician practices, health departments, insurance companies, pharmaceutical industry, etc.). The goal is to provide an overview of skill sets needed by healthcare administrators to assist in the career planning.
- HAP 420 Seminar in Health Policy (3)** II
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 450 Communicating Health Narratives (3)** OD (Same as COM 450)
This course examines communication in multiple health care contexts: individual (health beliefs and attitudes), interpersonal (patient-provider and provider-provider), organizational (hospital, and clinic), and societal (public health campaigns, public health campaigns, public health policy, and health politics). We will explore how narratives function to construct and communicate health beliefs in these contexts.
- HAP 456 Public Health Ethics (3)** (Same as PHL 456, SRP 456)
Lectures and small group discussions focus on ethical theory and current ethical issues in public health and health policy, including resource allocation, the use of summary measures of health, the right to healthcare, and conflicts between autonomy and health promotion efforts. Student evaluation based on class participation, a group project, and a paper evaluating ethical issues in the student's area of public health specialization. **P: PHL 250 or THL 250; Sr. Stdg.**

- HAP 457 Biomedical Ethics: Philosophical and Theological Approaches** (3) I, II, S (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 healthcare policy. **P: THL 250 or PHL 250, Sr. stdg.**
- HAP 477 Gendered Health Across the Lifespan** (3) (Same as COM 477, SRP 477, WGS 477)
A great human concern in our society is the gendered construction of health and how individuals are affected by health decisions. This interdisciplinary course will explore gendered health issues from a unique perspectives involving ethical, biocultural and psychosocial perspectives across the lifespan. The first part will lay the theoretical groundwork and identify policy and ethical concerns; the second part will examine gendered health issues across the lifespan. **P: PHL 250 or THL 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 healthcare 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
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
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 healthcare 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 312.**

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 155.

- 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 110** **History and Technology in the Modern World** (3)
History component of an interdisciplinary course in Modern Western History along with the materials science concepts that made these events possible. A survey of the evolution of the Western societies and technologies of Europe and North America from the 15th century to the present. **P: MTH 245; CO: ERG 251.**
- 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 307** **Introduction to American Studies** (3) (Same as AMS 307)
This course provides an introduction to the field of American Studies, which seeks to understand the complex reality of "the American experience" in all its variety. Topics include the history of American Studies as a discipline as well as its methodologies, central concepts, and emerging questions. Students will examine a broad topic from multiple disciplinary perspectives, with an emphasis on developing and employing the methodological tools common to contemporary American Studies scholarship. The topic/content areas will be selected by the instructor, based upon his/her area of scholarly expertise. **P: So. stdg.**
- HIS 308** **Theories and Methods in American Studies** (3) (Same as AMS 308)
This course introduces students to prevailing theories and methodologies in American Studies. Students will examine in a critical fashion interdisciplinary studies of the meaning and significance of "Americanness" in historical, cross-cultural, and even trans-national contexts. The complex relationships between ethnic, religious, racial, and ideological groups in American society will receive critical attention. **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 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 322 History of Scotland (3) OD**
“The Creator surely never made anything so odd, difficult, contrary, intriguing and unlikely as the Scot, ever to let it fizzle out.” (Nigel Tranter). The course takes Scottish history from the mists of antiquity to the Romans, Tacitus, Hadrian’s Wall, the Picts, Christianity, Saint Columba, The Norseman, clan rivalries within the haunting Highlands, relations with the English, Irish, and French. Along the way, we encounter MacBeth, the Black Douglas, William Wallace (Braveheart), Robert the Bruce, Battle of Bannockburn, John Knox, Mary, Queen of Scots, James VI & I, Charles I, Oliver Cromwell, Bonnie Prince Charles, “Charlie’s Year,” Rob Roy, Battle of Culloden, Robert Burns, Sir Walter Scott, Adam Smith, Scottish pipers, and contemporary Scotland. **P: So. stdg.**
- HIS 325 Race, Nation and Empire (3)**
Is nationality the most universally legitimate value in the political life of our time? How are nationalism, racism and empire intertwined? This class will study the culture and politics of nation-building throughout the long nineteenth century in Europe and the Atlantic world through a variety of primary and secondary sources. **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. **P: So. stdg.**
- 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 ARH 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 Israel and Jordan (3) OD (Same as ARH 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 Warfare in the Classical World (3)** (Same as CNE 351)
This course will study warfare as it was conducted and imagined in the Greek and Roman worlds. Using both primary evidence and secondary scholarship, we will examine practical manuals of tactics and siege warfare, as well as literary works from a variety of genres. We will also consider material evidence, such as visual and monumental depictions of warfare, and their role in producing cultural meaning. **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, social, 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 376 Spain and its Empire since 1942** (3)
The year 1492 was a watershed for the Spanish Monarchy: the beginnings of empire, the expulsion of the Jews and the end of Moorish rule. Yet contemporary Spain, far from intolerant, has become a model EU state. This course will explore the history of Inquisition, civil war, dictatorship, and transition to democracy. **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. May be repeated under different subtitles. **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. May be repeated to a limit of six hours. **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 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 The Renaissance (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 The Reformation (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 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 20th Century Europe (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 418 Great Empires of the Near East (3) (Same as CNE 418)**
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.
- HIS 419 Ancient Egypt: History, Society, and Culture (3) (Same as CNE 419)**
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.

- 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 American Colonies (3) AY** (Same as AMS 449)
 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 Revolutionary America (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 Early American Republic (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 The 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 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 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 463** **Japan in the Twentieth Century: A History of Modern Culture** (3)
This course examines the history of twentieth century Japan as depicted in literature, cinema, and popular music. Students will be asked to consider the importance of economic class and gender in addition to the larger ethical and moral questions concerning the rise of imperialism in East Asia; the prosecution of the Russo-Japanese, Sino-Japanese, and Pacific Wars; and the atomic bombings of Hiroshima and Nagasaki. **P: So. stdg.**
- HIS 464** **Gender and Sexuality: East Asia** (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** **Narratives of East Asian Tradition** (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 470** **Conquest, Slavery and Piracy in the Atlantic World, 1492-1825** (3)
How did the indigenous of the New World interact with Europeans during their initial encounters? This course analyzes the colonial Atlantic world—the intertwined history of four continents connected by commercial, ecological and cultural exchanges. Themes explored include imperialism, identity, slavery, religion and the emergence of revolutionary politics. **P: So. stdg.**
- HIS 471** **Atlantic Revolutions and Empires** (3)
Across the Americas between 1775 and 1825, revolutionary wars profoundly shaped the new nations, identities and cultures that replaced European Atlantic empires. This course will examine how Enlightenment ideas, slave rebellion and radical politics set the stage for revolutions from the U.S. to France, Haiti, Spain and Spanish America. **P: Soph. 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 History Practicum (1) OD**
May be repeated to a limit of four hours. This course is graded Satisfactory/Unsatisfactory. **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 535 Modern Russian Cultural History (3) OD**
History of Russia, its society and thought, as found in the chronicles, journals, novels, dramas, film, and music of Russian authors and artists. **P: So. stdg.**
- HIS 542 The Rise of the Irish Free State (3)**
Irish nationalism and independence movements, 1890-1923. Topics include the Irish Renaissance, Home Rule, the origins of Sinn Féin and the IRA, women’s political organizations, the Easter Rising of 1916, the Anglo-Irish War, Partition, and the Irish Civil War. Special attention will be given to Irish depictions of this pivotal era in literature, film, and music. **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 Postwar Europe (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 Russia's Revolutions (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 551 The Rise and Fall of Europe's Empires (3)**
This course will analyze the height of European imperialism from 1800 to 1960. Themes explored include how European nations came to dominate the globe and the rapid transition to decolonization after World War II. In addition, emphasis will be placed upon issues of nationalism, racism and economic development. **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 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 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 Foundational 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 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 load 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 traditions 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: This 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 319 Sources and Methods: The Psychology of Stereotyping, Prejudice, and Intergroup Conflict (3)**
Students will develop a scientific understanding of the complex phenomena of stereotyping, prejudice and intergroup conflict by examining how stereotypes are developed and maintained as a result of basic social and cognitive processes and evaluating the various approaches and methods used to research stereotyping in psychology. **P: Only open to students in the Honors Program.**
- HRS 320 Sources and Methods: Cosmology and our Evolving Understanding of the Universe (3)**
This course is an exploration of humanity’s ever-changing perception of the universe from the ancient Babylonians to today. We’ll cover roughly 3000 years of evolving thought, examining four distinct eras of cosmology: the era of myth/philosophy, the era of enlightenment, the era of revolution, and the era of understanding. We will examine how paradigms shift and how our understanding of the universe has grown enormously in the last century. The course will culminate with a scientific yet non-technical description of the standard big bang model of cosmology along with the observational and theoretical evidence that supports it. **P: Only open to students in the Honors Program.**
- HRS 322 Sources and Methods: The Catholic Church and Latin America (3)**
The Roman Catholic Church has been present in Latin America for over 450 years. Initially an active participant in the conquest and domination by European powers, the Church has fundamentally changed its mission and doctrine over the past 50 years. Students will be introduced to Latin American history and Roman Catholic ecclesiology using the development of doctrine as the unifying theme. They will read primary sources in English and Spanish, books, articles, and scholarly journals. **P: Only open to students in the Honors Program.**
- HRS 324 Sources and Methods: Classics of Social Theory: Positivism and its Discontents (3)**
This course illuminates the common origin of the social sciences in the intellectual currents of the late 19th and early 20th centuries, focusing especially on the texts of Freud, Marx, Weber, Durkheim, Levi-Strauss, and Saussure. Students reflect on what we mean by “social,” “modernity,” “science,” “the family,” “language,” and “the psyche.” **P: Only open to students in the Honors Program.**
- HRS 325 Sources and Methods: Evolution and Human Behavior (3)**
Students will be introduced to the science of psychology and its methodologies using the theories of evolutionary psychology. They will read scientific articles, books, and articles from the popular press. The primary assumption is that the human mind and behavioral predispositions have been shaped by the process of natural selection throughout our evolutionary past. **P: Only open to students in the Honors Program.**
- HRS 326 Sources and Methods: Gender in Classical Antiquity (3)**
By reading and interpreting primary and secondary sources, students examine Greek and Roman ideas about gender including how gender roles governed men and women’s lives; how the ancient Greeks and Romans defined and used gender categories in literature, politics, law, religion, and medicine; and how these ancient ideas inform contemporary ones. **P: Only open to students in the Honors Program.**
- HRS 327 Sources and Methods: Greek Tragedy: Texts, Contexts, Subtexts (3)**
This “sources and methods” course is an introduction to a crucial genre in Western literature. Students will: read the majority of extant Greek tragedies; understand the historical and material circumstances under which the plays were created and performed; and tackle the “macro” interpretive questions to which they give rise. **P: Only open to students in the Honors Program.**

- HRS 328 Sources and Methods: Critical Perspectives of Disability and Society (3)**
Disability is usually viewed as a condition of personal deficit, misfortune, and shame. This course will question practices and discourses through which these negative perceptions are generated and reinforced. Students will explore models of disability, reinterpretations of human variation, and narrative methods used to investigate the personal experience of disability. **P: Only open to students in the Honors Program.**
- HRS 329 Sources and Methods: In Search of the Promised Land: Religion & Place in America (3)**
This course will examine the quest for the Promised Land in diverse religious communities with a particular emphasis on religion and place. Issues for consideration include concepts of home and sacred space, religion and nature, the faith and practices of exile communities, and the influence of border culture on religion. **P: Only open to students in the Honors Program.**
- HRS 330 Sources and Methods: Christian and Jewish Theology after the Holocaust (3)**
In the decades following the Holocaust, the reality of evil, the power and benevolence of God, the nature of covenant, and other key theological concepts became points at which traditional Jewish and Christian theologies were challenged and defended. This course will investigate these challenges, focusing on the central concept of covenant. **P: Only open to students in the Honors Program.**
- HRS 331 Sources and Methods: Representations of Piracy from 1600 to the Present (3)**
This course examines representations of piracy from 1600 to the present. It considers the process by which pirates have become romanticized rather than censured figures as well as how the idea of piracy functions in terms of the illegal reproduction of various forms of media. **P: Only open to students in the Honors Program.**
- HRS 332 Sources and Methods: "Thugs, Preps and Playas": Critical Approaches to Masculinities (3)**
This class will explore the concepts of manliness over time. Utilizing literature, poetry, film, popular media, and other genres, students in this course will interrogate the meaning behind being a man in contemporary society via multiple lenses such as through spirituality, sports, and different nationalities. **P: Only open to students in the Honors Program.**
- HRS 333 Sources and Methods: The Renaissance Artist (3)**
The artist and art historian Giorgio Vasari was the first to use the term "Renaissance" to describe the cultural movement that ran through Europe from approximately 1300-1550. Since then, countless historians in many fields have sought to make sense of the happenings in those centuries, many focusing on the era's chief protagonists: the Renaissance artist. In this class we will undertake a close study of the surviving documents of Renaissance art literature in an effort to understand better how the men and women of the Renaissance conceived of their time and their world. **P: HRS 100; Only open to students in the Honors Program.**
- HRS 334 Sources and Methods: Green Chemistry and Sustainability (3)**
Chemistry has had many positive impacts on society, such as the development of medicines and many items we take for granted. Many of these items have come at a cost to the environment. Green chemistry considers human beings, our surroundings, and the environment when designing a chemical reaction, experiment, or process. **P: HRS 100; Only open to students in the Honors Program.**
- HRS 335 Sources and Methods: Not Lost in Translation (3)**
This "sources and methods" course in the Honors Program looks at how the Bible has been translated from antiquity to the modern world. Students will situate selected versions and translators within their historical, social, cultural, political, and religious contexts. They will also learn how to identify and evaluate differing styles of translation. In addition, students will become familiar with the nuances of different contemporary English versions and will come to recognize how important these differences can be to discussions of topics such as the environment, sexuality, and war. It is not expected that students in this class will have knowledge of either of the major languages in which the Bible was composed, Hebrew and Greek. **P: HRS 100; Only open to students in the Honors Program.**
- HRS 336 Sources and Methods: Theory, Method and Art of Autoethnography (3)**
Autoethnography is both art and science, a reflexive research practice that uses the lens of the self (auto) to describe and write (graphy) about people and cultures (ethno). This course will introduce students to the methodological and theoretical roots of autoethnography, and then guide them in becoming autoethnographic researchers. **P: HRS 100; Only open to students in the Honors Program.**

- HRS 337 Sources and Methods: Women in Music (3)**
This course will explore numerous issues concerning women in music. These may include, but are not limited to: 1) The contributions and roles of women as composers, patrons and performers in Western art music, non-Western art music and popular music, 2) The portrayal of women in opera and Broadway, and 3) Feminist perspectives in musical criticism. **P: Only open to students in the Honors Program.**
- HRS 338 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 339 Sources and Methods: The Age of Augustus (3)**
This course provides an interdisciplinary introduction to one of the most important eras in history. We will study how a nineteen-year-old youth, Gaius Octavius, became the first Roman emperor Augustus, and explore the ways the Western world was transformed during his fifty-eight years of power (44 BCE-14 CE). **P: Only open to students in the Honors Program.**
- HRS 340 Sources and Methods: Introduction to Green Cultural Studies (3)**
This course will introduce students to the field of cultural studies as it emerged in the U.S. and elsewhere, give students a working knowledge of cultural studies as a methodological approach, and facilitate the application of this methodology to environmental texts and issues. **P: Only open to students in the Honors Program.**
- HRS 341 Sources and Methods: The History and Future of the Book (3)**
History of the book as a literate, literary, and cultural artifact; Examination of important trends in text production from ancient times to the present; examination of contemporary directions, including digital venues, in traditional and multimediated bibliotechnology. **P: Only open to students in the Honors Program.**
- HRS 342 Sources and Methods: Modeling Global Issues (3)**
Students will be introduced to issues concerning comparative politics, nuclear stability, economic stability, economic freedom, creative economy, smart power, hard of hearing and deaf children, and the application of mathematical modeling to these and other issues. **P: Only open to students in the Honors Program.**
- HRS 344 Sources and Methods: The Literature of Mysticism (3)**
This course will focus on mysticism, East and West. Jean Gerson, the great 15th-century theologian and churchman, once defined mysticism as "the experiential knowledge of God that comes through the embrace of unitive love. In this course, we will explore the lives and writings of some of the great mystics, those remarkable individuals who claim to have tasted first-hand this "experiential knowledge of God." **P: Only open to students in the Honors Program.**
- HRS 345 Sources and Methods: The World and Writings of St. Augustine (3)**
St. Augustine (354-430) is among the greatest and most influential of Christian theologians. This course offers in-depth examination of both his career and his theology, exploring his major works (Confessions, On the Trinity, and On the City of God) his doctrine-shaping controversies with Donatists and Pelagians, and his influence on Christian views of creation, Church, sacraments, and grace. **P: Only open to students in the Honors Program.**
- HRS 346 Sources and Methods: Philosophy as Therapy (3)**
We will study the ways philosophers of various eras have employed philosophical therapies (e.g., against emotional turmoil or distorted outlooks on the world). We will explore the strengths and limitations of philosophical therapy and compare its techniques with those of psychological, sociological, and spiritual therapies. **P: Only open to students in the Honors Program.**

- HRS 347 Sources and Methods: Stoics in Film and Literature (3)**
Study of the idea of the stoic as presented in various literary genres, philosophical texts, and films. Examination of the stoic life as portrayed in poems, short stories, novels, treatises, letters, and video media. **P: Only open to students in the Honors Program.**
- HRS 348 Sources and Methods: Pictures and Words: The Visual Book (3)**
“Pictures and Words” will introduce the student to the history and fine art of photographic materials in books and visual design, as well as present the student with an introductory studio arts course in the hands-on creation of visual books with photographic materials and written text. **P: Only open to students in the Honors Program.**
- HRS 497 Directed Independent Research (1-3)**
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 this course.

- 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 over arching 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.



ITALIAN

For the Italian Program of Study, please refer to page 175.

- 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), it will provide greater 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**
Course designed to help students make the transition to natural communication and to further develop all four language skills (listening, speaking, reading and writing), it will provide greater insight into Italian life and culture. **P: ITA 102 or equivalent.**
- ITA 202 Intermediate Italian II (3) OD**
This course focuses on the development of refined, accurate expression in speaking and writing Italian. There will be selected readings. **P: ITA 201.**
- ITA 311 Advanced Italian I (3)**
Development of a more advanced ability in reading, speaking, listening and writing in Italian. **P: ITA 202 or equivalent.**
- ITA 328 Studies in Contemporary Italian Culture: 1975-2002 (3)**
Italian culture in the past thirty years has experienced many changes due to shifts in politics, new demographic dynamics, and the influence of technology. As a consequence, Italy presents itself as a cultural mosaic. In this course, students will discuss the new 'Italian identity' through readings, films and articles. **P: ITA 311 or IC.**
- ITA 335 Italian Practicum (1)**
The purpose of this course is to improve students' Italian speaking skills by offering regular practice in Italian conversation, while enhancing their awareness of Italian culture. Course may be repeated for a maximum of 3 credits. **P: One 300-level ITA course.**
- ITA 366 Etruscan and Roman Art (3) OD (Same as ARH 366, CNE 366)**
Sculpture, painting, and the minor arts of the Etrusco-Roman people.
- ITA 375 History of Italian Renaissance Art and Architecture (3) (Same as ARH 375)**
The Italian Renaissance studied through the material culture from 1200-1550 with an emphasis on the history of painting, sculpture and architecture. Important figures from the period include Giotto, Donatello, Leonardo da Vinci, Michelangelo, Raphael, and Titian.
- ITA 377 Seventeenth-Century Art and Architecture (3) (Same as ARH 377)**
The Age of the Baroque was one of the most dynamic in Western history. Absolute monarchs such as Urban VIII, Louis XIV, and Peter the Great ruled over growing empires from sumptuous new capital cities. Contact with the New World, Galileo's invention of the telescope, and Newton's discovery of the laws of physics challenged conceptions of the universe and humanity's place in it. A philosophical revolution unfolded led by Hobbes, Descartes, Spinoza, and Leibniz. Literature flourished with the works of Shakespeare and Cervantes, while Purcell and Bach wrote the century's soundtrack.
- ITA 411 Introduction to Italian Literature (3)**
This course is an introduction to major periods and movements of Italian literature from the Middle Ages to the present. There will be reading and discussion on selected topics. **P: ITA 311.**
- ITA 461 The City of Rome in Antiquity (3) OD (Same as ARH 461, 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.

- ITA 465 The City of Rome since Antiquity (3)** (Same as ARH 465, CNE 465)
An architectural, urban, and social historical survey of the city of Rome from the end of the Empire, through the Middle Ages and Renaissance, and ending with the modern city. The class will focus on urban history, theory and design, but will cover political history to the extent needed to provide a framework for the course.
- ITA 525 Roma: Passeggiate nella Città Eterna (3) S**
Study abroad in Rome, Italy: Strolling in the Eternal City. Italy's capital city, offers students endless opportunities for personal enrichment. It is a cosmopolitan metropolis and a provincial city with a human dimension that provides a wonderful variety of squares, churches, Roman Forum, etc.. Students will learn its rich history and how the people of Rome speak and live as they visit some of Rome's major public spaces. Students who have already been exposed to Italian in the classroom will be able to use their language skills. **P: IC.**
- ITA 572 Italian History and Society in Italian Cinema (3)**
This course will explore Italian history and changes in Italian society from 1930 to the present. Selected Italian films will serve to investigate the shaping of Italian society from the period of Fascism through the changes that occurred in the post-war decades: from the "Resistance" to the contemporary phenomenon of immigration. **P: One 300 level course or IC.**

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)**
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)**
Development of refined and accurate expression in speaking and writing Japanese. **P: JPN 202 or equivalent.**
- JPN 312 Advanced Japanese II (3)**
Development of a more refined and accurate expression in speaking and writing Japanese. **P: JPN 202 or equivalent.**
- JPN 313 Contemporary Japanese Culture and Society (3)**
This course is designed to explore the world of Japanese popular culture. Students will gain insight into current Japanese society by examining anime (Japanese animation), music, television programs, sports, literature, and social fads. This interdisciplinary is conducted in English.

JOURNALISM

For the Journalism Program of Study, please refer to page 160.

- JRM 202 Design and Rapid Prototyping Lab II (2)**
In order to effectively learn convergent media in today's world, students need training in current mass communication technologies. This course provides basic instruction in adapting content to print and interactive media using standard software applications. Upon successful completion of the course, students will be competent users of web, print, graphic and video applications. **CO: ERG 212.**
- JRM 215 Introduction to Mass Communication Technology (2) I, II**
In order to effectively learn convergent media in today's world, students need training in current mass communication technologies. This course provides basic instruction in adapting content to print and interactive media using standard software applications. Upon successful completion of the course, students will be competent users of web, print, graphic and video applications.
- JRM 219 Media Writing (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 and multimedia projects for the student newspaper in print and online. The course also introduces students to ethical, legal and other issues surrounding the role of media in a democratic society.
- JRM 220 Professional Writing (3) II**
This course will teach students how to write major professional formats such as executive summaries, power point presentations, abstracts of technical articles, professional proposals, copy for posters and copy for web pages. Course work will include oral presentations and integration of writing and graphics. **P: JRM 215.**
- JRM 313 Principles of Advertising (3) II**
The course examines the principles and media of advertising and evaluates advertising's role in society and in business.
- JRM 321 Advanced Reporting (3)**
The advanced course builds on skills and concepts developed in JRM 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: JRM 219.**
- JRM 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 video and video-editing, free-lance writing techniques and methods. **P: JRM 219 or IC.**
- JRM 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.
- JRM 325 Digital Video I (3) I, II, S**
Students learn how to shoot, produce and edit digital video short format projects for online, television and mass media distribution. **P: Journalism, Computer Science, Graphic Design and Digital Design and Development majors only.**
- JRM 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 incorporating multimedia. **P: JRM 219.**

- JRM 327 Social Media (3) I, II, S**
This course explores the development, art and practice of writing, editing and producing social media content over a range of platforms and networks in news, public relations and advertising. The course also will examine ethical and legal aspects of social media and its role in social justice. **P: JRM 215.**
- JRM 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: JRM 219.**
- JRM 335 History of American Mass Media (3) I, II**
The course surveys mass media in America and their role in society from the forerunners of the newspaper, to contemporary newspapers and media with an emphasis on First Amendment issues. **P: Soph. stdg.**
- JRM 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, multimedia, photos, professional journals, press conferences and press briefings, special events and crisis situations. **P: JRM 323 or IC.**
- JRM 347 Advertising Campaigns I (3) I, S**
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: JRM 313 or 323 or IC.**
- JRM 350 Public Relations Campaigns (3) I**
This course provides integrated and comprehensive experiences in integrated advertising and public relations decision making. Experience gained in Public Relations Principles (JRM 323) is used to execute a comprehensive integrated public relations and advertising campaign. This class will take place concurrently with Advertising Campaigns II. **P: JRM 313 or JRM 323.**
- JRM 365 International Mass Communications (3) I, II, S**
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.
- JRM 375 Photojournalism I (3) I**
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.
- JRM 377 Photojournalism III: Editorial Illustration (3) I**
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: JRM 375.**
- JRM 378 Photojournalism II: Picture Editing (3) I**
The course examines the principles of design for newspapers and magazines with an emphasis on using photographs in the design. **P: JRM 375.**
- JRM 433 Advertising Copy Writing (3) I**
The course explores techniques in writing advertising copy for all media using practical assignments. **P: JRM 313 or 323.**
- JRM 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: Jr. stdg.**

- JRM 440 Media Research (3) I, II, S**
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.**
- JRM 450 Advanced Digital Video (3) II**
This course expands on JRM 325 Digital Video. Students learn advanced sound production, introduction to motion graphics, pre and postproduction techniques as well as narrative storytelling utilizing digital videography. **P: JRM 325.**
- JRM 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. Graded Satisfactory/Unsatisfactory. **P: IC.**
- JRM 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 Creightonian Online, the Bluejay Yearbook. May be repeated for up to nine credit hours. **P: IC.**
- JRM 479 Graphic Design Internship (1-3) I, II, S**
Students will gain professional experience in graphic design through working in supervised graphic design jobs. Graded Satisfactory/Unsatisfactory. **P: GDE 380 or IC.**
- JRM 481 Broadcast and Video 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. Graded Satisfactory/Unsatisfactory. **P: JRM 325 or IC.**
- JRM 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. Graded Satisfactory/Unsatisfactory. **P: IC.**
- JRM 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. Graded Satisfactory/Unsatisfactory. **P: IC.**
- JRM 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. Graded Satisfactory/Unsatisfactory. **P: IC.**
- JRM 493 Directed Independent Readings (1-3) I, II, S**
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. **P: IC.**
- JRM 500 Final Cut Studio Master Certification (6)**
To be a successful new media content professional, one must master the digital tools used in the discipline. Students in this course will create advanced new media narrative projects while earning up to four Apple Final Cut Studio professional certifications. **P: JRM 325 or Final Cut Pro 7 Level One certification.**
- JRM 529 Law of Mass Communication (3) I, II, S**
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 164.

- JPS 265 Cortina Seminar (1) II**
JPS 265 is a one-credit seminar addressing the four pillars of the Cortina Community: community, service, faith, and justice and the general theme of privilege and poverty. Eight sections of approximately 14 students each will be offered, each taught by a different instructor, within that instructor's academic discipline but meeting the same requirements and engaging in cross-disciplinary conversation. **P: Open to students in the Cortina community only.**
- JPS 343 Ecclesiology in Global Context (3) S** (Same as THL 343)
The global Catholic Church is a worthy object of study and understanding and this is best done through direct immersion with a travel course. Each area of the world provides a unique cultural embodiment of the call of the Second Vatican Council to read the signs of the times and interpret them in the light of the Gospel (Guadium et Spes no. 4).
- JPS 361 Social Justice in the Dominican Republic (6) I, II** (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 465 Faith and Political Action (3) AY** (Same as PLS 465, 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.**
- JPS 470 Poverty in America (3)** (Same as EDU 470, SRP 470)
The intent of this course is to provide students with an understanding of the cultural, economic and political structures of an impoverished society, to understand the dilemmas inherent in poverty and to develop an attitude of sensitivity and connectedness with those in this plight.
- 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 vocational discernment in the Ignation tradition. **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, pacifism, and nonviolence in both Catholic and Protestant traditions. 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 117.

- LAT 101 Beginning Latin I (3) I**
Basic vocabulary, syntax and morphology for reading Classical Latin.
- LAT 102 Beginning Latin II (3) I**
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 completed in LAT 101 and 102. **P: LAT 102 or LAT 115 or equiv.**
- LAT 300 Introduction to the Ancient Mediterranean World (3) I** (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)**
Selected readings of major Latin authors, such as Caesar, Vergil or the Younger Pliny. Review of Latin 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) 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: LAT 201 or equiv.**
- LAT 400 Early Latin Authors (3)**
Students will read authors of the Early period (such as Plautus, Cato, or Terence). This course may be repeated 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). This 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). This course may be repeated to a max of 6 credits. **P: LAT 201 or equiv. and GRK 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. This course may be repeated to a max of 6 credits. **P; DC.**
- 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.



MANAGEMENT

Professors Moorman and Workman (Chair); Associate Professors Govindarajulu, Hoh, Wells, and York; Assistant Professors Darnold, Gallo; Instructor Mizaur.

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 479 Seminar in Management** (3) I or 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 issue of the *Creighton University Bulletin* under the heading Business Administration (MBA).

MARKETING

Professor Workman (Chair); Associate Professor Seevers; Assistant Professors Johnson and Wachner.

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) I, 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
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 366 Marketing Internship** (3) I, II, S
This course is designed to provide students with practical marketing experience by applying marketing 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 marketing course work, and c) approval by the coordinator of Marketing internships in the Department of Marketing and Management. The course is graded satisfactory/unsatisfactory and only 3 hours of internship credit may be used to satisfy graduation requirements. **P: MKT 319; Second Semester Junior or Higher Standing; I.C.**
- 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 issue of the *Creighton University Bulletin* under the heading Business Administration (MBA).

MATHEMATICS

For the Mathematics Program of Study, please refer to page 166.

- MTH 103 Intermediate Algebra (3) I, II, S**
Topics from second-year algebra to form an introduction to college algebra.
- MTH 105 Math for Elementary Teachers (3)**
Typical elementary school topics will be reviewed and extended to related topics of exponential notation, significant figures, measures of change, economic principles and the normal distribution. In so doing, all applicable NCTM Standards will be covered.
- 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 139 Precalculus (3) I, II**
This course will cover the basic concepts that are required for further study of mathematics including a course in calculus. The course topics include solving linear, quadratic, exponential and logarithmic equations; linear and quadratic inequalities; properties and graphs of polynomial, rational, exponential, logarithmic, trigonometric and inverse trigonometric functions; angles; right triangles; trigonometric identities and equations.
- 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.

- 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 249 Modeling the Physical World I** (3)
First semester in the sequence on mathematical modeling using calculus. Course is taught jointly with PHY 221. Topics include elementary differential equations, techniques of integration, sequences and series, vector analysis, and applications. **P: MTH 245. CO: PHY 221.**
- MTH 310 Fundamentals of Mathematics** (3) I, II
A systematic study of the basic concepts in mathematics, including set theory, logic, proof techniques, 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 349 Modeling the Physical World II** (3)
Second semester in the sequence on mathematical modeling using calculus. Course is taught jointly with PHY 222. Topics include multivariable functions and calculus, series integration (Green's, Stokes', and Divergence theorems) and applications. **P: MTH 249 and PHY 221. CO: PHY 222.**
- MTH 355 Essentials of Epidemiology** (3) (Same as HAP 355, STA 355)
This course introduces the concepts and includes exercises related to epidemiology, the discipline that serves as the basic science of public health, or population health, by providing evidence for defining the public health problem, assessing causation, and evaluating effectiveness of potential interventions.
- MTH 363 Elementary Probability and Statistics** (3) II
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 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) OD
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 546 Partial Differential Equations** (3)
Integral curves and surfaces of vector fields; the Cauchy-Kovalesky theorem; general linear PDEs, their characteristics and classification; solutions to, and applications of, linear and quasi-linear first order and second order PDEs; Laplace's equation, the heat equation and the wave equation. **P: MTH 545.**
- 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 555 Chaotic Dynamical Systems** (3)
This course will study discrete dynamical systems. Topics covered will include one - dimensional and higher - dimensional dynamical systems, fixed points, stability theory, linearization, phase spaces, bifurcation theory, index theory, limit cycles and periodicity, chaos, and attractors. Applications to Biology, Physics, Chemistry, and other areas will be studied. **P: MTH 347 and MTH 529.**
- 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 571 Operations Research** (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 572(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 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 310.**
- MTH 582 Modern Algebra II** (3) OD
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 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 168.

- 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**
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) I**
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 or DC.**
- MIL 200 Leadership Laboratory II (0) I, II**
This second-year leadership laboratory parallels MIL 211/212 classroom instruction, reinforcing 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 205 ROTC Leadership Training Course (3) S**
Four 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 Course. Course 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, operations and training. **P: MIL 211.**

- MIL 213 Military Science and Leadership (2) II**
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 215 United States Military History (3) I, II**
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 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 Leadership Development and Assessment Course 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 213 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 four 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, DC.**
- 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 Second 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 Second 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 Second Lieutenant. **P: DC.**

MUSIC

For the Music Program of Study, please refer to page 147.

- MUS 100 Music Theory I (3)**
The Music Theory sequence is designed to give the student a foundational understanding of the music theory of Western art music. Broken into three successive semesters, the first portion of the sequence, Music Theory I, offers basic skills in music theory. **P: MUS 221.**
- MUS 101 Music Theory II (3)**
This second portion of the theory sequence, Music Theory II, moves beyond basic skills in music theory, covering diatonic seventh chords, different elements of chromaticism, the principles of secondary dominants, modulations, basic binary and ternary forms, and secondary leading-tone chords. **P: MUS 222.**
- 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 130 Foundations of Music (3)**
Foundations of Music is a beginning course for the student who has little or no knowledge to the basic elements of music, including rhythm, meter, intervals, scales, and keys. The course will also give the student the opportunity to further develop his/her listening skills. Students will gain a greater understanding of music through lectures, listening, discussion and application of skills.
- 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.

Applied Music I (1) I, II

Individual lessons. May be repeated to a limit of two credits. By audition. Special fee is charged. Juried examination at the end of each semester. **CO: Performance ensemble.**

- MUS 137 Applied Music I-Flute (1) OD**
- MUS 138 Applied Music I-Oboe (1) OD**
- MUS 139 Applied Music I-Clarinet (1) OD**
- MUS 141 Applied Music I-Saxophone (1) OD**
- MUS 142 Applied Music I-Bassoon (1) OD**
- MUS 143 Applied Music I-Horn (1) OD**
- MUS 144 Applied Music I-Trumpet (1) OD**
- MUS 146 Applied Music I-Trombone (1) OD**
- MUS 147 Applied Music I-Euphonium (1) OD**
- MUS 148 Applied Music I-Tuba (1) OD**
- MUS 150 Applied Music I-Percussion (1) OD**
- MUS 151 Applied Music I-Violin (1) OD**
- MUS 152 Applied Music I-Viola (1) OD**
- MUS 155 Applied Music I-Cello (1) OD**
- MUS 156 Applied Music I-String Bass (1) OD**
- MUS 157 Applied Music I-Piano (1) I, II**
- MUS 158 Applied Music I-Organ (1) OD**
- MUS 159 Applied Music I-Harp (1) OD**
- MUS 160 Applied Music I-Guitar (1) I, II**
- MUS 161 Applied Music I-Voice (1) I, II**

MUS 145 Beginning Class Piano II (3) OD

Continuation of MUS 135. Weekly 1 hour lessons. Special fee is charged.

MUS 200 Music Theory III (3)

This third portion of the theory sequence, Music Theory III, moves into advanced skills in music theory, covering mode mixture, augmented sixth chords, and twentieth century techniques. **P: MUS 101.**

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 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.**

Applied Music II (1) I, II

Individual lessons. May be repeated to a limit of two credits. Special fee is charged. Juried examination at the end of each semester. **P: MUS 100-level lesson (2 credits)**
CO: Performance ensemble.

- MUS 237 Applied Music II-Flute (1) OD**
MUS 238 Applied Music II-Oboe (1) OD
MUS 239 Applied Music II-Clarinet (1) OD
MUS 241 Applied Music II-Saxophone (1) OD
MUS 242 Applied Music II-Bassoon (1) OD
MUS 243 Applied Music II-Horn (1) OD
MUS 244 Applied Music II-Trumpet (1) OD
MUS 246 Applied Music II-Trombone (1) OD
MUS 247 Applied Music II-Euphonium (1) OD
MUS 248 Applied Music II-Tuba (1) OD
MUS 250 Applied Music II-Percussion (1) OD
MUS 251 Applied Music II-Violin (1) OD
MUS 252 Applied Music II-Viola (1) OD
MUS 255 Applied Music II-Cello (1) OD
MUS 256 Applied Music II-String Bass (1) OD
MUS 257 Applied Music II-Piano (1) I, II
MUS 258 Applied Music II-Organ (1) OD
MUS 259 Applied Music II-Harp (1) OD
MUS 260 Applied Music II-Guitar (1) I, II
MUS 261 Applied Music II-Voice (1) I, II

MUS 265 Musical Theatre Performance Lab (solo) (2)

An intensive singing/interpretive laboratory experience specifically focusing on audition preparation and the solo dramatic/musical performance of solo scenes and solos from musical theatre repertoire. **P: IC.**

MUS 266 English and Latin Diction for Singers and Performers (2)

This course is constructed to 1) increase proficiency of phonation; articulation and transcription of the English and Latin languages using the International Phonetic Alphabet; 2) acquire knowledge of rules of English and Ecclesiastical Latin pronunciation specific to the context of singing; and 3) increase intelligibility of vocal repertoire in performance through the application of these principals.

MUS 267 Italian Diction for Singers and Performers (2)

This course provides the voice student the skills needed to sing in Italian. Basic phonetic guidelines will be taught with the use of IPA. It will also give the students a rudimentary understanding of the Italian language in order to translate and thus interpret the vocal literature. The students will learn to transcribe, translate, recite and perform pieces in Italian with the ultimate goal of being able to communicate expressively through singing. Students will also become acquainted with standard Italian vocal literature through performance and listening. **P: MUS 266 and MUS 271.**

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 300 Music History I (3)

As part of the Music History sequence, this course will give the student a background in the history and language of the Baroque era of Western music, as well as the listening skills for aural analysis of the music of the Baroque. Major movements, genres, and composers will be covered. **P: MUS 200.**

- MUS 301 Music History II (3)**
As a part of the Music History sequence, this course is designed to give a background in the history and language of the Classical and Romantic eras of Western music, as well as the listening skills for aural analysis of those periods. Major movements, genres, and composers will be covered. **P: MUS 200.**
- 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 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.**
- Applied Music III (1) I, II**
Individual lessons. May be repeated to a limit of two credits. Special fee is charged. Juried examination at the end of each semester. **P: MUS 200-level lesson (2 credits)**
CO: Performance ensemble.
- MUS 337 Applied Music III-Flute (1) OD**
- MUS 338 Applied Music III-Oboe (1) OD**
- MUS 339 Applied Music III-Clarinet (1) OD**
- MUS 341 Applied Music III-Saxophone (1) OD**
- MUS 342 Applied Music III-Bassoon (1)OD**
- MUS 343 Applied Music III-Horn (1) OD**
- MUS 344 Applied Music III-Trumpet (1) OD**
- MUS 346 Applied Music III-Trombone (1) OD**
- MUS 347 Applied Music III-Euphonium (1) OD**
- MUS 348 Applied Music III-Tuba (1) OD**
- MUS 350 Applied Music III-Percussion (1) OD**
- MUS 351 Applied Music III-Violin (1) OD**
- MUS 352 Applied Music III-Viola (1) OD**
- MUS 355 Applied Music III-Cello (1) OD**
- MUS 356 Applied Music III-String Bass (1) OD**
- MUS 357 Applied Music III-Piano (1) I, II**
- MUS 358 Applied Music III-Organ (1) OD**
- MUS 359 Applied Music III-Harp (1) OD**
- MUS 360 Applied Music III-Guitar (1) I, II**
- MUS 361 Applied Music III-Voice (1) I, II**
- MUS 353 Jazz in American Culture (3) OD (Same as AMS 353)**
Examines the relationship between American society and 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 363 Musical Theatre Repertoire (3)**
This course will explore the various styles of songs composed for the musical stage, their origin and development. This exploration will include historical research and background on the musicals from which these songs incorporate, and focus on the stylistic practices need to sing these songs. Selected songs from the musical theatre repertoire will come from the nineteenth century through the present. Students will perform selections chosen for them during the course of the semester. **P: Successful audition into the major; Completion of two semesters of MUS 235.**
- MUS 364 History of Musical Theatre (3)**
History of Musical Theatre is a survey course that will examine the origin and development of this distinctly American art form, the American musical. Combining history, culture, music and social themes, the course will take a look at composers and lyricists, producers, directors, choreographers and the artists who performed these works onstage. The course is presented chronologically, highlighting the minstrels, operetta, revues, book musical, film musicals, rock musicals, recently written musicals and revivals.
- MUS 365 Advanced Musical Theatre Performance Lab (Duet-Ensemble) (2)**
An intensive laboratory experience specifically focusing on the dramatic and musical performance of scenes and duets, trios and ensemble numbers from musical theatre repertoire. Authentic dramatic interpretation and flawless musical preparation and execution will be the primary foci. This course is repeatable to a max of eight credits. **P: MUS 265.**
- MUS 367 German and French Diction for Singers and Performers (3)**
This course provides the voice student the skills needed to sing in German and French. Basic phonetic guidelines will be taught with the use of IPA. The student will learn to transcribe, translate, recite and perform pieces in German and French, with the ultimate goal of being able to communicate expressively through singing. They will also become acquainted with standard German and French vocal literature through performance and listening. **P: MUS 267 or MUS 266 and MUS 271.**
- MUS 369 American Popular Music (3) OD (Same as AMS 369)**
This is a lecture/demonstration course that will trace the birth and evolution of popular music in America from its roots in the nineteenth century, jazz, blues, country and rock music through the artists and songs that define the genre.
- 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 391 Film Music (3)** (Same as AMS 391)
The course will survey the important and emerging art genre of film music. The course will include music scores and composers of the past and present combining historical, cultural and social themes in film as enhanced through the music. Some study will include the language of music, in particular, melody, harmony, rhythm, tone color and the composer's use of these elements in creation music for the film. The course will deal primarily with American film but may include selected films of other countries as well.
- MUS 400 Music History III (3)**
As a part of the Music History sequence, this course is designed to give the student a background in the history and language of the 20th Century era of Western music, as well as the listening skills for the aural analysis of that period. Major movements, genres, and composers will be covered. **P: MUS 200.**
- MUS 401 Music History IV (3)**
As an addendum to the Music History sequence, this course is designed to give the student a background in the history and language of the early music of Western civilization, as well as the listening skills for the aural analysis of the music of the Antiquity, Middle Ages, and Renaissance. **P: MUS 200.**
- 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**
- Applied Music IV (1) I, II**
Individual lessons. May be repeated. Special fee is charged. Juried examination at the end of each semester. **P: MUS 300-level lesson (2 credits) CO: Performance ensemble.**
- MUS 437 Applied Music IV-Flute (1) OD**
MUS 438 Applied Music IV-Oboe (1) OD
MUS 439 Applied Music IV-Clarinet (1) OD
MUS 441 Applied Music IV-Saxophone (1) OD
MUS 442 Applied Music IV-Bassoon (1) OD
MUS 443 Applied Music IV-Horn (1) OD
MUS 444 Applied Music IV-Trumpet (1) OD
MUS 446 Applied Music IV-Trombone (1) OD
MUS 447 Applied Music IV-Euphonium (1) OD
MUS 448 Applied Music IV-Tuba (1) OD
MUS 450 Applied Music IV-Percussion (1) OD
MUS 451 Applied Music IV-Violin (1) OD
MUS 452 Applied Music IV-Viola (1) OD
MUS 455 Applied Music IV-Cello (1) OD
MUS 456 Applied Music IV-String Bass (1) OD
MUS 457 Applied Music IV-Piano (1) I, II
MUS 458 Applied Music IV-Organ (1) OD
MUS 459 Applied Music IV-Harp (1) OD
MUS 460 Applied Music IV-Guitar (1) I, II
MUS 461 Applied Music IV-Voice (1) I, II
- 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: IC, DC.**
- MUS 498 Senior Recital (1) I, II**
Preparation and presentation of solo literature in the music major's area of performance concentration. **P: Sr. stdg.; MUS Majors only, IC. CO: MUS 437-461.**

NATIVE AMERICAN STUDIES

For the Native American Studies Program of Study, please refer to page 179.

- 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 316(209) Qualitative Methods in the Social Sciences** (3) II (Same as AMS 316, ANT 316, SOC 316)
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 ARH 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** (3) I (Same as ART 325, JRM 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 331 Indians of the Great Plains** (3) II, ONY (Same as AMS 331, 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 Cultures and Health (3) I** (Same as AMS 340, ANT 340)
This course allows students to learn first hand about the cultures 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, and through professional and community-related service and research activities. Students will engage with SPAHP students enrolled in the Pharmacy version of this course, "Learning through Reflective Service: Native American Experience" (PHA 341). Enrolled undergraduate students will engage in service with Omaha based health agencies and attend group reflection sessions.
- NAS 343 Peoples and Cultures of Native North America (3) I, ENY** (Same as AMS 343, 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, ideological adaptations, and the nature of culture change for indigenous peoples and subsequent immigrants to the regions of the Americas where linguistically Spanish and Portuguese now predominate. **P: So. stdg.**
- NAS 353 Introduction to Native American Literature (3)** (Same as ENG 353)
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.**



- NAS 358 Critical Issues in the Study of Native American Religions** (3) II, ONY (Same as AMS 358, 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 386 The History and Aesthetics of Latin American Photography** (3) (Same as ARH 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, ARH 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 424 Sustainability and Rural America** (3) II (Same as EVS 424, SRP 424, SOC 424)
This interdisciplinary course studies sustainability and the diverse cultures of rural American peoples by looking at topics such as ethics, environmental resources, economic strategies, public policy and social inequality. This course offers off-campus field observation and ethical reflection assignments and involves students in active collaborative problem-solving research. **P: PHL 250 or THL 250; Sr. stdg.**
- NAS 468 Native American Art** (3) OD (Same as AMS 468, ARH 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.
- NAS 493 Directed Independent Reading** (1-6) I, II, S
Student-initiated survey of the literature related to a broad 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.**
- 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.**
- NAS 499 Native American Studies Senior Capstone** (3)
The capstone course in Native American Studies allows a student to focus on a research topic or service learning experience utilizing all the knowledge and experience gained throughout his/her course of study within the major. Each student meets weekly with his/her mentor and writes a major research paper rooted in a single disciplinary perspective and covering selected program learning goals and objectives. **P: Sr. stdg. and IC.**

NURSING

Professors: Howell (Dean), Kunes-Connell, Lappe, Norris. Professors Emerita: Ciciulla, Pinch, Vossen;

Associate Professors: Laughlin, Lazure, Parsons, Shirley, Wilken;

Assistant Professors: Abbott, Aufdenkamp, Boardman, Bredekamp, Cosimano, Costanzo, Graves, Hadenfelt, Harms, Hawkins, Hercinger, Manz, Minnich, Nilsson, O'Keefe, Oertwich, Parks, Potthoff, Price, Rubarth, Rusch, Satiroff, Schoening, Spelic, Synowiecki, Todd, Tow, Woods, Wydeven, Yager;

Instructors: Carrico, Connelly, Gauthier, Goodman, Grovas, Isaacs, Morris, Selig.

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 NUR 252.

A nursing practicum course is taken in conjunction with the companion theory course (e.g. NUR 352 is corequisite for NUR 351). Unsatisfactory performance is any practicum course or its companion theory course prohibits advancement to 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. An introduction to basic responsibilities for the nursing professional is provided. 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) II

NUR 224 is designed to introduce students to the knowledge, principles, and skills necessary to assess the physical, psychosocial, and functional status of persons at various stages of lifespan development. Emphasis is placed on the nurse's role in assessing, identifying and describing normal and abnormal findings using a systems approach. **P: BMS 111, BMS 303; CO: NUR 226. P or CO: NUR 252.**

NUR 226 Health Assessment Practicum (1) II

NUR 226 provides opportunities for students to apply concepts learned in NUR 224 to the physical, psychosocial, and functional assessment of persons at various stages of lifespan development. Emphasis is placed on developing basic skills and techniques necessary to conduct a comprehensive health assessment and physical examination. Students will apply physiological and pathophysiological concepts to the normal and abnormal findings of health assessment, physical examination and common health alterations. 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 102.**

NUR 252 Human Pathophysiology (4) 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. It is designed for students with limited or no clinical experience. **P: BMS 111, BMS 303, CHM 111, MIC 141. P or CO: NUR 224, NUR 226, CHM 112/113.**

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: NUR 252, 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 in promoting, protecting, restoring and maintaining health. Content includes transcultural concepts across the lifespan and with diverse populations. **P: Jr. stdg.; NUR 223, 224, 226, 228, 252; CO: NUR 352, 377. P or CO: 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, long-term, 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 principles of epidemiology and demographic measurement of populations and groups to examine the distributive factors of health needs in populations. Students will apply concepts of community/population as client to analyze the assessment, planning, implementation, and evaluation used in select populations. Students will identify how the care management process is incorporated in the community/population health planning process. **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. P or CO: NUR 353, 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 health care research 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; P: NUR: 353, 354, 371, 372, 377; CO: NUR 472. P or CO: NUR 473, 474.**
- 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 placed on development of the nurse as a leader of the interdisciplinary care management team. Graded Satisfactory/Unsatisfactory. **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 the 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. Content focuses on reciprocal relationships among society, health care organizations, and the nursing profession. **P: NUR 471, 472, 473, 474. 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. The course 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, 474; CO: NUR 481.**
- NUR 491 Spanish for Health Care (2) I, S**
 NUR 491 is an elective course offering a concise introduction to Spanish grammar, vocabulary and culture for students whose personal or professional goals include a working knowledge of Spanish. In addition to emphasizing basic communication, this course will give special attention to the vocabulary needs of individuals involved in the profession of nursing. This course is graded Satisfactory/Unsatisfactory.
- 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.
- NUR 500 Genetics Across the Lifespan (3) I, II**
 NUR 500 is an elective course focusing on the application of genetic principles across the lifespan through a variety of perspectives. Content focuses on the basic mechanisms of genetic inheritance and the genetic contribution to rare and common disorders. The impact of genetics on health promotion, disease prevention and treatment and nursing responsibilities is discussed. Emphasis placed on critical examination of the psychological, social, ethical, legal, cultural, policy and professional implications of the integration of genetics into healthcare. Undergraduate **P: NUR 223, 224, 226, 228, 252.**

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, 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 as well as the pathophysiological alterations related to body systems. **P: Admission into the ANC program.**
- NUR 288 Health Assessment (2)**
NUR 288 is designed to introduce students to the knowledge, principles and skills necessary to assess the physical, psychosocial, and functional status of persons at various stages of lifespan development. Emphasis is placed on the nurse's role in assessing, identifying and describing normal and abnormal findings using a systems approach. **P: Admission into the ANC 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. Graded Satisfactory/Unsatisfactory. **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 restoration. 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: NUR 288, 289; CO: NUR 252, 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. **P: Admission to the ANC program. P or CO: NUR 252.**
- NUR 381 Care Management of Populations (2)**
NUR 381 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, 386, 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 theory, research, and practice 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 381, 382, 390, 391.**

- NUR 390 Care Management and Outcomes Improvement for Altered Health States (6)**
 NUR 390 introduces the concepts of health alteration/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 health alterations/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 381, 382, 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, disease management, and interprofessional collaboration. Learning experiences will take place in a variety of acute care and community-based settings for diverse populations with selected episodic and chronic alterations in health states. 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.
- 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. Political, legal, economical, ethical, social, cultural, and technologic influences on health care and nursing practice are addressed. **P:** NUR 394. **CO:** NUR 493, 496, 497, 498.
- NUR 496 Care Management and Outcomes Improvement for Complex Altered Health States (4)**
 NUR 496 emphasizes the care of clients with complex health problems. Students apply knowledge of systems, dysfunction, pathophysiology, laboratory data, pharmacology, and intervention 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 381, 382, 386, 390, 391, 394; **CO:** NUR 493, 494, 497.
- NUR 497 Care Management and Outcomes Improvement for Complex Altered Health States Practicum (4)**
 NUR 497 provides students with practicum opportunities to care manage a variety of complex clients including those with unstable/ life threatening diseases or trauma 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.

OCCUPATIONAL THERAPY

Offered by the School of Pharmacy and Health Professions.

OTD 215 Medical Terminology (1)

Medical Terminology is a critical part of language and communication used by health care practitioners. This self-directed course is designed for students planning a career in the health services and related fields. Course content includes a study of basic medical terminology. Students will construct and decipher terms using prefixes, suffixes, word roots, combining forms, special endings, plural forms, and abbreviations related to body systems, cavities, planes, and positions. Competency is evaluated throughout the semester through online testing.

PHARMACOLOGY

Offered by the Department of Pharmacology of the School of Medicine

PHR 241 Pharmacology I (5) on campus

This course can be offered on campus or web-based. 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 242 Pharmacology II (5) on campus

The pharmacy pharmacology course provides a comprehensive coverage of the major drug groups and their mechanisms. The emphasis is on the pharmacological basis for the therapeutic use of drugs. Specific drug classes will be discussed with emphasis on mechanism of action, organ systems affected by drugs, adverse effects, contraindications, pharmacokinetics, therapeutic indications and drug-drug interactions. **P: PHR 241.**



- PHR 350 Introduction to Pharmacology (3)**
 This course is designed for undergraduates with concentrations in a range of majors and professional interests including biology, chemistry, biochemistry, psychology, pre-pharmacy and pre-medicine. Pharmacology is more than the study of the mode of action of drugs. It is a science which uses the basic concepts of biology and chemistry to determine how drugs affect the organism; it gives a unique perspective in understanding how cells, organ systems, and organisms function. Unlike other basic science fields, pharmacology is a special field in which one can systematically investigate the mechanism for a biological event—from the molecular level to the whole animal. Pharmacology also allows us to study how biological systems fail to function, providing information on the etiology of disease. Pharmacologic research is essential for the development, testing and clinical use of drugs to treat disease. **P: BIO 211, 212 and CHM 203, 321 or IC.**
- PHR 531 Chemical Basis of Drug Action I (3) I**
 The chemical basis for drug action in vivo and in vitro. General chemical principles, physicochemical 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.**

PHARMACY

Offered by the School of Pharmacy and Health Professions.

- PHA 213 Human Anatomy for Pre-Pharmacy Students (3)**
 Pre-pharmacy students will learn cellular, tissue, organ and system level anatomical structures, with emphasis on using anatomical knowledge as a foundation for pharmacist-provided patient care. **P: BIO 211 and BIO 212 or equivalent.**

PHILOSOPHY

For the Philosophy Program of Study, please refer to page 180.

- 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 201 Introduction to Logic** (3)
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)
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 255 Energy, Ethics and Environment** (3)
Study of the ethical issues associated with different types of energy technologies and their impacts on the environment. **P: PHL 107.**
- PHL 311 Utopian Thought** (3)
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 312 Symbolic Logic** (3)
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) (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: PHL 201, PHL 250, PHL 312, or 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)
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: PHL 201, PHL 250, PHL 312, or PHL 320.**

- PHL 324 Native American World View, Culture and Values (3)** (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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 328 Philosophy of History (3)**
 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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 331 Moral Philosophy (3)**
 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 332 World Philosophy (3)**
 This course offers a comparison of different global philosophical perspectives, including, but not limited to, African Philosophy, Native American Philosophy, Buddhism, Chinese Philosophy and Indian Philosophy. The emphasis is on philosophy as a guide to life, and will encompass discussion of some of the most significant texts in these diverse philosophical traditions. We also consider the application of these different philosophical viewpoints to contemporary social and ethical issues. **P: PHL 107, and one of the following: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 333 Philosophy of the Human Sciences (3)**
 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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 334 Philosophy of the Natural Sciences (3)**
 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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 342 Metaphysics (3)**
 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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 343 Ethics and the Professions (3)**
 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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 345 Philosophy for Children (3)** (Same as EDU 345)
 This course introduces a curriculum aimed at fostering creative and critical thinking for children. Philosophy begins in wonder. This course seeks to reawaken the sense of wonder and protects children's capacity of questioning. A careful examination on the issue from both the theory and practice of doing philosophy with children will be involved. **P: PHL 107, and one of the following: PHL 201, PHL 250, PHL 312, or PHL 320.**

- PHL 348 Philosophy of Feminism (3)** (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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 351 Introduction to Chinese Philosophy (3)** (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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 353 Introduction to Buddhism (3)** (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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 354 Environmental Ethics (3)** (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)**
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 356 Philosophy of Peace and War (3)**
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 357 Bioethics (3)**
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 358 Social and Political Philosophy (3)**
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 359 History of Ethics (3)**
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 360 History of Mediaeval Ethics (3)** (Same as CNE 360)
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 365 Classics of Political Thought (3)** (Same as PLS 365)
Critical readings of Plato, Aristotle, Machiavelli, Hobbes, Locke, and Marx, with emphasis on their contributions to contemporary political understanding. **P: So. stdg.**

- PHL 366 St. Thomas and Thomism (3)**
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 367 American Philosophy (3)** (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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 368 Moral Psychology (3)**
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 370 History of Classical Greek Philosophy (3)** (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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 371 History of Hellenistic Philosophy (3)** (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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 372 History of Medieval Philosophy (3)** (Same as CNE 372)
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 373 History of Modern Philosophy (3)**
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 374 History of 19th-Century Philosophy (3)** (Same as GER 374)
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 401 Themes in Contemporary Philosophy (3)**
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 410 Stoicism (3)** (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: PHL 201, PHL 250, PHL 312, or PHL 320.**

- PHL 413 Philosophy and Literature (3)**
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 415 Thoreau's Walden: Fiction, Poetry, Truth (3)** (Same as AMS 415)
This course is a philosophical exploration of the relations among fiction, poetry and truth, in the context of reading one of the greatest classics of American literature, Henry David Thoreau's Walden. **P: PHL 107 or So. stdg.**
- PHL 420 Science and Religion (3)** (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 422 Aesthetics (3)**
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 424 Philosophy of Mind (3)**
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 430 Rationality and Religious Belief (3)**
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: PHL 201, PHL 250, PHL 312, or 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)** (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)**
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 451 Social Justice: Theory and Practice (3)**
Examination of various principles of social justice in conjunction with direct social involvement through community services. **P: PHL 107, and one of the following: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 453 Ethics and Public Policy (3)**
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: PHL 201, PHL 250, PHL 312, or PHL 320.**

- PHL 454 Environmental Philosophy** (3) (Same as EVS 454)
Examination of a variety of theoretical approaches to philosophical issues concerning individual organisms, species, ecosystems, and the biosphere. Aesthetic, axiological, epistemological, and ontological issues may be addressed. **P: PHL 107, and one of the following: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 455 Health Care, Society and Values** (3)
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 456 Public Health Ethics** (3) (Same as HAP 456, SRP 456)
Lectures and small group discussions focus on ethical theory and current ethical issues in public health and health policy, including resource allocation, the use of summary measures of health, the right to health care, and conflicts between autonomy and health promotion efforts. Student evaluation based on class participation, a group project, and a paper evaluating ethical issues in the student's area of public health specialization. **P: PHL 250 or THL 250; Sr. Stdg.**
- 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 healthcare policy. **P: PHL 250 or THL 250; Sr. stdg.**
- PHL 459 Marxism** (3) (Same as GER 459, 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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 460 Humanity and the Concept of the Future** (3) (Same as SRP 460)
This course examines the philosophical concept of time in relation to how one understands oneself as a member of a community that reaches back into the distant past and forward into the distant future, and the intergenerational ethical relations and obligations which emerge from the temporal and historical self-understanding. **P: PHL 250 or THL 250; Sr. stdg.**
- PHL 461 The Role of Philosophy in Theology** (3) (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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 463 Phenomenology** (3)
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 465 American Pragmatism** (3) (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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 467 Existentialism** (3)
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: PHL 201, PHL 250, PHL 312, or PHL 320.**

- PHL 469 Contemporary Analytic Philosophy (3)**
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 475 Multiculturalism: History, Philosophy, Literature, and Education (3)** (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)** (Same as WGS 479)
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 480 Philosophical Classics (3)**
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 481 A Major Philosopher (3)**
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 482 Race in America: Idea and Reality (3)** (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. Examination of a variety of significant topics and texts in contemporary philosophy. Emphasis on discussion, short writing assignments and seminar presentations on authors such as James Moore, Heidegger, Maritain Wittgenstein, Quine, Foucault, Nagel, McDowell, and Korsgaard. **P: Sr. PHL major or IC.**
- PHL 493 Directed Independent Readings (1-4)**
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 495 Directed Independent Study (1-4)**
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- PHL 593 Advanced Readings in Philosophy (1-4)**
Independent readings course worked out individually for the student. May be repeated to a limit of six hours. **P: PHL major and IC**

PHYSICS

For the Physics Program of Study, please refer to page 184.

- 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) OD
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) OD
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 157 Energy in Modern Society** (3) OD
This course uses fundamental physical principles to develop an understanding of energy and the various sources of energy available for our use. We investigate historical trends in the production, transportation and consumption of energy as well as projections for future energy use. The effects of energy policy are considered. 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. No formal science prerequisites. **P: MTH 135 or 137 or IC.**
- PHY 188 Physics in the Everyday World** (1) I
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, 157, 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. **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. **CO: MTH 245 or 141 or IC. P: PHY 211; MTH 245 or 141 or IC.**
- PHY 221 Mathematical Modeling of the Physical World I** (3) I
First semester in the physics sequence with a particular emphasis on mathematical modeling. Course is taught jointly with MTH 249. Topics include kinematics, Newton's laws of motion, conservation of momentum and energy, rotational dynamics, and fluids. **P: MTH 245; CO: MTH 249.**
- PHY 222 Mathematical Modeling of the Physical World II** (3) II
Second semester in the physics sequence with a particular emphasis on mathematical modeling. Course is taught jointly with MTH 349. Topics include oscillations, waves, optics, electricity and magnetism, and modern physics. **P: MTH 249 and PHY 221; CO: MTH 349.**
- PHY 223 Project Physics Laboratory I** (1)
Project-based laboratory experiences to acquaint the student with physical phenomena, instrumentation and research methods in physics. Topics include kinematics, Newton's laws of motion, conservation of momentum and energy, rotational dynamics, thermodynamics, and fluids. **P or CO: PHY 221.**
- PHY 224 Project Physics Laboratory II** (1)
Project-based laboratory experiences to acquaint the student with physical phenomena, instrumentation and research methods in physics. Topics include oscillations, waves, optics, electricity and magnetism, DC and AC circuits, and modern physics. **P or CO: PHY 222.**
- 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 or PHY 222.; 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 or PHY 222.**
- 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 or PHY 222; 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 PHY 222.**
- 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 or PHY 222, 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 or PHY 222; 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 or PHY 222; 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 or PHY 222.**
- 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 or PHY 222; 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) I**
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 or PHY 222; 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 or PHY 222; 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 or PHY 222; MTH 246.
- PHY 559 Gravitation and Cosmology** (3) OD
An introduction to standard big bang cosmology utilizing Einstein's general theory of relativity. Topics in relativity will include tensor analysis, Riemannian geometry, and the Einstein Equation. Topics in cosmology will include the Friedman-Robertson-Walker metric, the age of the universe, dark matter and dark energy, and early universe thermodynamics. **P:** PHY 301.
- 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 or PHY 222; MTH 246; or IC.
- PHY 571 Condensed Matter Physics** (3) II, AY
An introduction to the structure and dynamics of solids and liquids including solid state physics. Topics include the structure of crystalline, amorphous and self-similar (fractal) matter as conveyed by scattering techniques, the vibrational properties of crystals, the dynamics of liquids, electron dynamics in crystals (including band theory), response functions, percolation theory, and phase transitions (with an emphasis on critical phenomena, scaling and renormalization). **P:** PHY 301 or CHM 341 or IC.
- PHY 572 Condensed Matter Laboratory** (1) II, AY
Laboratory work designed to acquaint the student with spectroscopy techniques used in condensed matter and material science, including: static and dynamic light scattering, Raman spectroscopy, X-ray diffraction, scanning tunneling microscopy, and dielectric spectroscopy. 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** (1-3) 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 issue of the *Creighton University Bulletin*.

POLITICAL SCIENCE

For the Political Science Program of Study, please refer to page 188.

- 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 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 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 316 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 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 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 Healthcare (3) II** (Same as HAP 334)
Review of government policies and programs as they affect healthcare 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 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)
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 cooperation 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 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 365 Classics of Political Thought (3)** II, AY (Same as PHL 365)
Critical readings of Plato, Aristotle, Machiavelli, Hobbes, Locke, and Marx, with emphasis on their contributions to contemporary political understanding. **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 (Same as GER 401)
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 411 Politics of Africa (3)** I, AY (Same as AFS 411, BKS 411)
Introduction to politics of sub-Saharan Africa. Covers traditional African cultures, societies and polities; independence movements; and post-colonial politics. Discusses political parties, military interventionism, ethnic conflict, development policy and democratic reform. **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 314.**
- 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 Relations (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 459 Marxism (3) OD (Same as GER 459, 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 JPS 465, 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 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. Stdg.**
- PLS 490 Advanced Research Practicum** (3) OD
Intense exploration of a research project to include the study of advanced methods, 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 312.**
- PLS 530 Advanced Statistics for Political Science (3)**
This course is designed to acquaint students with advanced research tools used by political scientists. We will build on basic bivariate models to include an array of multivariate techniques, including those that incorporate time series and cross sectional data. By the end of the semester, students will be able to produce a sophisticated data analysis project that could be publicly presented. **P and CO: PLS 215 and PLS 310.**
- 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 195.

- 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
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. **This course does not fulfill any of the requirements of the psychology major.**
- 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. This course does not fulfill any of the requirements of the psychology major.**
- 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
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) OD
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.**
- 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** **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, S**
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: PSY 111.**
- 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. Not open to students enrolling as auditors. **P: PSY 111; Jr. stdg.**

- 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 Psychological Assessments (3) OD**
This course provides content in two key areas associated with the development and use of psychological tests and assessments. The course begins with basic psychometric issues such as test theory, reliability, and validity. The course also focuses on how various types of tests and assessments are used in clinical, school, and work settings. These include personality assessment (e.g., MMPI), cognitive ability assessment, aptitude and ability testing (e.g., ACT, SAT, GRE, etc.). **P: PSY 111 and 313.**
- PSY 424 History and Systems of Psychology (3) I**
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 Evolutionary Psychology (3) I**
The course examines the mechanisms of the human mind through the lens of evolution. Human behavior is influenced by psychological mechanisms and adaptations that evolved to cope with the challenges of survival and reproduction, and understanding these procedures can unify diverse areas of psychology. **P: PSY 111.**
- PSY 428 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 433 Motivation and Emotion (3)**
Surveys research and theories related to human motivational processes, goal pursuit, and approaches to emotional states such as anger, happiness and sadness. Relevant research will focus on biological, psychological, and environmental influences on motivation and emotion. **P: PSY 111.**
- PSY 434 Learning: Basic Processes (3) I, OD**
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) I, 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 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.**

- PSY 464 Developmental Psychopathology (3) I**
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 471 Crisis Intervention (3) 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 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 major, Jr. stdg., IC, PSY 353..**
- PSY 480 Advanced Statistics (3) OD**
An exploration of various regression and analysis of variance techniques. Other topics such as metaanalysis 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. **P: PSY 111.**
- 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. The Code of Ethics supporting the profession is introduced. **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 84.

Note: The Ratio Studiorum Program offers to all incoming students, both first-time students and transfers, a one-semester-hour, 100-level Fall course. Although each of the following five 100-level RSP courses includes material particular to the College, status, or program of the registered student, all of them also cover many of the same topics. A partial description common to each of them reads: This course in Creighton's Ratio Studiorum Program introduces new students to college life in general and life at Creighton University in particular. It examines key elements of collegiate life, including the meaning and value of a liberal arts education; the University's Jesuit, Catholic history and Ignatian values; and the vocational aspirations and challenges common to all college students. Students also learn about the culture of scholarship and its basis in the standards of academic integrity. Assignments include discussion of a series of essays written especially for the Ratio Studiorum Program.

RSP 101 The Introduction to the Culture of Collegiate Life for College of Arts and Sciences Students (1) I

This course introduces first-year students in the College of Arts and Sciences (CCAS) to life at Creighton University. In addition to the topics common to all 100-level RSP courses (see above Note), students learn about the CCAS Ratio Studiorum, or plan of study, including the College's six learning objectives and degree requirements (major and minor). Assignments include class discussion of a selected book that addresses aspects of self-exploration and self-discovery. The course is taught by a Faculty Preceptor, supported by a Decurion (a junior or senior personally invited by the Preceptor).

RSP 102 The Introduction to the Culture of Collegiate Life for School of Nursing Students (1) I

This course introduces first-year students in the School of Nursing to life at Creighton University. In addition to the topics common to all 100-level RSP courses (see above Note), students learn about Nursing's Ratio Studiorum, or plan of study, including the School's Program Objectives and degree requirements. Assignments include class discussion of a selected book, read during the summer, that addresses aspects of self-exploration and self-discovery. The course is taught by a Faculty Preceptor, supported by a Decurion (usually senior Nursing student personally invited by the Preceptor).

RSP 103 The Introduction to the Culture of Collegiate Life for College of Business Administration Students (1) I

This course introduces first-year students in the College of Business Administration to life at Creighton University. In addition to the topics common to all 100-level RSP courses (see above Note), students learn about CoBA's Ratio Studiorum, or plan of study, including the College's six learning goals and degree requirements (major and minor). Course readings and class discussions focus on concepts of leadership and the College's leadership development program. The course is taught by a Faculty Preceptor, supported by a Decurion (an upperclassman personally invited by the Preceptor).

RSP 104 Introduction to the Culture of Collegiate Life for Honors Students (1) I

This course introduces first-year students in the Honors Program of the College of Arts and Sciences to life at Creighton University. In addition to the topics common to all 100-level RSP courses (see above Note), Honors students learn about the CCAS Ratio Studiorum, or plan of study, including the College's six learning objectives and degree requirements (major and Honors Program). Assignments include class discussion of a selected book that addresses aspects of self-exploration and self-discovery. The course is taught by a Faculty Preceptor, supported by a Decurion (a junior or senior personally invited by the Preceptor).

- RSP 105 Making the Transition: The Introduction to the Culture of Collegiate Life for Transfer Students (1) I, II**
This course introduces transfer students from the College of Arts and Sciences and the College of Business Administration to life at Creighton University. In addition to the topics common to all 100-level RSP courses (see above Note), transfer students learn about their respective College's Ratio Studiorum, or plan of study, including its learning objectives or goals and its degree requirements. Assignments include class discussion of a selected book that addresses aspects of self-exploration and self-discovery. The course is taught by a Faculty Preceptor, supported by a Decurion (usually a former transfer student personally invited by the Preceptor).
- RSP 120 Strategies for Academic Success (2) I**
Part of Creighton's Ratio Studiorum Program, this course is designed to provide comprehensive college-level study skills critical to academic and career success. Strategies, assignments, and techniques work to enhance motivation, goal setting and confidence. **P: Dean's Office Placement**
- RSP 130 Strategies for Student Success (2) II**
RSP 130 is designed to inform and educate students about the concepts of personal motivation as well as introduce to them academic strategies that will directly impact their individual success and retention. The presentation of motivational theory and practical study skills is supported by self-assessment and group interaction. **P: Dean's Office Placement**
- 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.**

RUSSIAN

- RUS 101 Beginning Russian I (3) 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 Russian life and culture.
- RUS 102 Beginning Russian II (3) I**
Continuation of RUS 101. **P: RUS 101 or equivalent.**
- RUS 201 Intermediate Russian I (3) 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: RUS 102 or equivalent.**
- RUS 202 Intermediate Russian II (3) I**
Continuation of RUS 201. This advanced course further develops students' proficiency in the four languages skills through reading of cultural and literary texts, engagement in meaningful discussions, writing and composition, completion of grammar exercises, and review of audio-visual materials. Students build a solid basis and competency for handling conversations, translations, and presentations. **P: RUS 201 or equivalent.**

SENIOR PERSPECTIVE

For the Senior Perspective Program of Study, please refer to page 196.

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 415 Stories that Shape Lives (3) OD (Same as THL 415)**
This course examines both classic stories and the implicit stories embedded in contemporary cultures. By “classic stories” is meant fables, biblical parables, and stories of holy people. By “implicit stories embedded in contemporary culture” is meant the “lived stories” embodied in the cultures from which our students come and in which they live. We address story (as human activity) and stories (as concrete cultural artifacts) from a variety of perspectives especially those of literary criticism, biblical exegesis, and the cross-cultural and historical study of spirituality.
- 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 ARH 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 424 Sustainability and Rural America** (3) (Same as EVS 424, NAS 424, SRP 424, SOC 424)
This interdisciplinary course studies sustainability and the diverse cultures of rural American peoples by looking at topics such as ethics, environmental resources, economic strategies, public policy and social inequality. This course offers off-campus field observation and ethical reflection assignments and involves students in active collaborative problem-solving research.
- 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 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 20th 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 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, & Daoism function in the lives of the peoples of eastern Asia.
- 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.
- 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 441 Education, Vocation and Discernment Through Writing (3)**
 Drawing from education, critical pedagogy, and writing studies, this course allow students to consider how American schooling has privileged efficiency and productivity over authenticity and self-knowledge. Students will study and contribute to current debates on education and vocation and will use writing to contemplate their educational histories and futures vocations.
- 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) (Same as CSC 448)**
 A Senior Perspective course in which students explore the concepts of Freedom and Security in 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.
- SRP 450 Violence in America: Nature, Consequences and Personal Responses (3) (Same as EDU 450)**
 This course explores some of the many forms of violence in America and the nature of violence as a social, cultural, and legal construct. The nature and consequences of American violence will be studied with an emphasis on understanding the dynamics and then formulating ethically appropriate personal responses.
- SRP 451 Science and Values (3)**
 The design and implementation of interdisciplinary projects allowing students from the performing arts, philosophy, education and physics to examine ethical questions in detail and develop tools that are effective in engaging an external group of students in the associated issues.

- 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 456 Public Health Ethics** (3) (Same as HAP 456, PHL 456)
Lectures and small group discussions focus on ethical theory and current ethical issues in public health and health policy, including resource allocation, the use of summary measures of health, the right to health care, and conflicts between autonomy and health promotion efforts. Student evaluation based on class participation, a group project, and a paper evaluating ethical issues in the student's area of public health specialization.
- 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 healthcare 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 460 Humanity and the Concept of the Future** (3) (Same as PHL 460)
This course examines the philosophical concept of time in relation to how one understands oneself as a member of a community that reaches back into the distant past and forward into the distant future, and the intergenerational ethical relations and obligations which emerge from the temporal and historical self-understanding.
- SRP 465 Faith and Political Action** (3) OD (Same as JPS 465, 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 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 470 Poverty in America** (3) (Same as EDU 470, JPS 470)
The intent of this course is to provide students with an understanding of the cultural, economic and political structures of an impoverished society, to understand the dilemmas inherent in poverty and to develop an attitude of sensitivity and connectedness with those in this plight.
- 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 477 Gendered Health Across the Lifespan** (3) (Same as COM 477, HAP 477, WGS 477)
A great human concern in our society is the gendered construction of health and how individuals are affected by health decisions. This interdisciplinary course will explore gendered health issues from a unique perspectives involving ethical, biocultural and psychosocial perspectives across the lifespan. The first part will lay the theoretical groundwork and identify policy and ethical concerns; the second part will examine gendered health issues across the lifespan.

- SRP 478 Intersections of Working and Personal Life** (3) (Same as COM 478)
 This course explores the intersections between (paid) working life and personal/family life from a variety of disciplinary perspectives. Topics include "balancing" careers with volunteer work, caregiving and relationships as well as the ways in which individuals communicate about their personal and family lives while at work and their working lives at home.
- 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 487 The Bible and the Holocaust** (3)
 It is an unfortunate fact that the Bible was more often abused to support Nazism than used to oppose it. This course looks at how the Bible (Old Testament and New Testament) was interpreted so as to provide support for those who carried out or acquiesced in the Holocaust as well as for those who resisted it. We investigate the religious, historical, and cultural contexts that allowed for these phenomena. We also explore trends in more recent biblical exegesis that reflect on the experience of the Holocaust.
- 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.
- SRP 489 American Prisons: Punish or Reform** (3) (Same as ENG 489)
 An examination of the philosophy of our social justice system and how members of the community can contribute to positive changes in the way inmates are regarded and treated. In a variety of prose writing projects, students will be expected to articulate their sense of how incarceration, punishment, and reform interrelate. Students will write about how their assumptions regarding prison and the inmates match the philosophy behind the way criminals are sentenced and the way they spend their time behind bars.

SOCIAL WORK

For the Social Work Program of Study, please refer to page 197.

- 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 275 Human Behavior and the Social Environment (4) 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.**
- SWK 289 Self-Care for the Helping Professions (1)**
This course provides students the opportunity to practice the Ignatian value of cura personalis by caring for the whole person. As an integrative, multi-modal approach that borrows from several theories and practices such as the spiritual exercises, yoga, breath-work, compassion fatigue and stress- management the students will explore the relationship between the mind and body to strengthen the emotional spirit. Self-care is an important practice management tool and as such students will develop self-care strategies to use while in the practice setting to enhance professional resilience. **P: SWK major or IC.**
- 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 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 345 Practice I-Social Work with Individuals and Families (3) 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. **CO: SWK 275 and SWK 346; or IC; SWK major.**

- SWK 346 Pre-Practicum (1) I**
Integrating course knowledge in a practice setting is the goal of pre-practicum. Under the supervision of a social worker students explore the ethical and theoretical base from which generalist social workers practice. Taken concurrently with SWK 345 Practice I Generalist Practice with Individuals & Families, the course begins the field practicum experience that distinguishes the social work degree. **P: SWK major, SWK 261, SWK 275, CO: SWK 345.**
- SWK 351(401) Economics, Policy and Social Welfare (3) I**
Examines the process of social policy development with a focus on the more vulnerable populations. Social policy is placed in a historical and a social context. Includes skills needed for policy formulation, analysis, and advocacy. **P: SWK 345, SWK major, Jr. stdg.**
- SWK 359 (429) Practice II: 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 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 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 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 an 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 435 Practice III: Advocacy, Injustice, Oppression and Ethical Decision-making (3) II**
This course prepares undergraduate social work practitioners to advance client/system well-being through the advocacy approach. Focus Is on the applying the concepts and principles of advocacy for social and economic justice with marginalized and disenfranchised populations. Emphasis is on constructing and using ethical and professional social work frames of reference for practice and understanding the interlocking nature of race, class and gender in alleviating oppression and discrimination. **P: SWK 345; CO: SWK 460, SWK 461.**
- SWK 460 Field Practicum Seminar I (2) 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 359, 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 359, 460; SWK Major.**
- SWK 480 Field Practicum Seminar II (2) 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 312; DC.**



SOCIOLOGY

For the Sociology Program of Study, please refer to page 198.

- SOC 101 Introduction to Sociology: 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 102(223) Introduction to Sociology: Social Problems** (3) I (Same as AMS 102)
Social problems in contemporary American society. Focus on public issues, controversies, and policy alternatives.
- SOC 301 Social and Cultural Theory** (3) I (Same as ANT 301, AMS 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 312(212) Quantitative Methods in the Social Sciences** (3) I, II (Same as ANT 312, HAP 312)
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 314 (214) Statistics for the Social Sciences** (4) I, II (Same as HAP 314, ANT 314)
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. **CO: SOC 312.**
- SOC 315 (215) Healthcare, Society and Culture** (3) I (Same as ANT 315, HAP 315)
Study of the relationship between society and healthcare systems. The sociology of healthcare organization, including patient-practitioner relationships, concepts of health and disease, healthcare personnel, and systems of delivery. **P: So. stdg.**
- SOC 316 (209) Qualitative Methods in the Social Sciences** (3) II, S (Same as AMS 316, ANT 316, NAS 316)
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 317 Global Health Issues** (3) II, ONY (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) I
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 335 Technology and Human Values** (3) II, ONY (Same as ANT 335)
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 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 AMS 355, 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 AMS 360, 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 411 Social Inequality and Stratification** (3) II (Same as AMS 411, ANT 411)
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 424 Sustainability and Rural America (3) II, ENY, S (Same as EVS 424, NAS 424, SRP 424, SOC 424)**
This interdisciplinary course studies sustainability and the diverse cultures of rural American peoples by looking at topics such as ethics, environmental resources, economic strategies, public policy and social inequality. This course offers off-campus field observation and ethical reflection assignments and involves students in active collaborative problem-solving research. **P: PHL 250 or THL 250; Sr. stdg.**
- 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 493 Directed Independent Readings (1-6) I, II, S**
Student-initiated survey of the literature related to a broad 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: Jr. SOC major.**
- 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.**
- SOC 499 Globalization: Understanding by Applying the Social Sciences (3) II (Same as ANT 499)**
Students will connect, integrate and elaborate prior learning and skills by studying and interpreting a selected aspect of the shared modern experience of globalization. Reading, research, discussion, writing, exercises and presentations will engage us in the topic and allow us to use our knowledge and skills developed by pursuing a sociology or anthropology major. The course provides both a completion of the undergraduate experience and engages student in program assessment. **P: SOC/ANT/NAS final semester majors only.**
- SOC 570 (470) Introduction to Geographic Information Systems (4) II, ENY (Same as AMS 570, ANT 570, EVS 570)**
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 312 or IC.**

SPANISH

For the Spanish Program of Study, please refer to page 176.

- 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 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 further develop all four language skills (listening, speaking, reading and writing), by using literary/cultural readings and grammatical exercises. **P: SPN 102 or 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 203 Intermediate Hispanic Culture and Civilization (3)**
This course has been designed to develop the student's proficiency in the language (reading, writing, listening, and speaking) and to offer a basic knowledge of the cultures and civilization of Spain and Spanish America. **P: SPN 201 or equivalent.**
- SPN 215 Accelerated Intermediate Spanish (6) II**
This course provides an intensive review of all major grammar points to prepare students for advanced language courses. Students will further develop their proficiency in the four language skills by reading cultural and literary texts, engaging in meaningful discussions and writing compositions related to these texts and other subjects, while participating in communicative grammar exercises. **P: SPN 102 or 115 or equivalent.**
- SPN 310 Accelerated Advanced Spanish (5) I**
This course is designed to develop advanced level skills in reading and writing Spanish, as well as to increase students' knowledge about Spanish as a language and culture. Through in-class discussions of selected readings, listening and speaking activities will be an integral part of the course. **P: SPN 202 or 215.**
- SPN 311 Advanced Spanish I (3) I, II**
Development of refined and accurate expression in speaking and writing Spanish; selected readings. **P: SPN 202 or 203.**
- SPN 312 Spanish Grammar in Context (3) I, II**
Continuation of SPN 311. Development of refined and accurate expression in speaking and writing Spanish; selected readings. **P: SPN 202 or 203.**
- SPN 313 Advanced Spanish Conversation (3)**
Development of oral communication skills through extensive vocabulary building and its practical application. **P: SPN 202 or 203.**
- SPN 314 Communicating in Business I (3)**
Oral and written practice in business communication, developing a business vocabulary, reading of documents and essays relating to business situations, interviewing and translating. **P: SPN 202 or 203.**
- SPN 316 Spanish Immersion I (3) S**
This course is designed to offer additional in-depth study of language and culture to intermediate Spanish students while focusing on the four language skills. It will also address verb forms, agreement and the subjunctive and indicative moods. **P: SPN 202 or 203.**

- SPN 317 Spanish Immersion II (3) S**
This course covers essential grammar concepts which enable more advanced students of Spanish to improve their overall proficiency. It also reviews previous grammar concepts with special attention to written communication. **P: SPN 202 or 203.**
- SPN 331 Medical Spanish I (3) I**
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: SPN 202 or 203.**
- SPN 335 Spanish Conversation (1-3) OD**
Course designed to improve oral and comprehensive skills through face-to-face and on-line discussions, interviews and oral presentations. Focus will be placed on each of the Spanish-speaking countries. 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 203.**
- SPN 340 Special Topics in Hispanic Cultures (3)**
This course is designed to develop the language skills and to promote a more sophisticated level of proficiency in oral and written communication in Spanish through grammar review, composition and selected readings based on a specific cultural or literary topic designed and chosen by the instructor of the course. **P: SPN 202 or 203.**
- SPN 401 Advanced Spanish Composition (3) I**
An intense grammar and composition course designed to refine written production and comprehension in Spanish, while developing advanced reading and writing skills in the target language. **P: Six credits at the 300-level.**
- SPN 421 Civilization and Culture of Spain (3) I**
The history and culture of Spain from its origins to the present. **P: Six credits at the 300-level.**
- SPN 422 Latin-American Culture and Civilization (3) II**
A study of the Latin-American culture from Pre-Columbian times to the present, through its history, art, architecture, music, philosophy and education. **P: Six credits at the 300-level.**
- SPN 423 (428) Encuentro Hispano I (3) S**
An exploration of Latin American culture through in-country learning excursions that may include city tours, visits to museums, theatre, cinema, and visits to socio-cultural ethnic sites in one or more countries of Latin America. **P: Six credits at the 300-level.**
- SPN 424 Encuentro Español I (3) S**
Exploration of Spanish culture through city tours, visits to museums, concerts, theater, and cinema in Spain. **P: Six credits at the 300-level.**
- SPN 425 Introduction to Literary Analysis (3) I, II**
An introduction to literary analysis with readings from Spanish and Latin-American literature. **P: Three credits at the 400-level.**
- SPN 426 Survey of Latin-American Literature (3) I**
Latin-American literature is studied from the Colonial Period to the present, incorporating some of the most influential writers in Spanish America. 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: Six credits at the 401-425 level.**
- SPN 427 Survey of Peninsular Literature (3) II**
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: Six credits at the 401-425 level.**
- SPN 430 (315) Communicating in Business II (3)**
Continuation of Communicating in Business I - Oral and written practice in business communication, developing a business vocabulary, reading of documents and essays relating to business situations, interviewing and translating. **P: Six credits at the 401-425 level.**

- SPN 431 (332) Medical Spanish II (3) II**
Continuation of SPN 331. **P: Six credits at the 401-425 level.**
- SPN 496 Independent Study in the Dominican Republic (3) S**
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. It is limited to students studying in the Dominican Republic. Maximum of three semester hours. **P: Six credits at the 401-425 level.**
- SPN 502 (402) Advanced Spanish Translation (3) II**
Focused on the translation of short texts: literature, media, technical, medial or diplomatic, contemporary situations. Through intensive study of techniques behind the exercise of translation, students will learn how to recognize and adapt the socio-linguistic parameters of Spanish and English to the context and the needs of the translation. **P: Six credits at the 401-425 level.**
- SPN 525 Encuentro Español II (3) S**
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: Six credits at the 401-425 level.**
- SPN 528 Encuentro Hispano II (3) S**
An in-depth exploration of Latin American culture through in-country learning that allows for study and analysis of society. These hands-on studies vary and may include visits to socio-cultural ethnic sites, literature, and film in one or more countries of Latin America. This course will be taught in Spanish. **P: Six credits at the 401-425 level.**
- SPN 540 Eighteenth and Nineteenth-Century Spanish Literature (3)**
This course provides a dynamic vision of Spanish literature through short narratives, poetry, and drama produced during the 18th and 19th centuries. It will cover the main literary movements of Neoclassicism, Romanticism, Realism, and Naturalism. Students will read a selection of works from authors most representative of those periods. **P: Six credits at the 401-425 level.**
- SPN 541 Medieval Spanish Literature (3)**
This course provides an insight into the most important writings of the Spanish Middle Ages and focuses on the three masterpieces of the period (*Mio Cid*, *Libro de Buen Amor* and *La Celestina*), but also emphasizes other poetic genres such as ballads and cancioneros. **P: Six credits at the 401-425 level.**
- 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: Six credits at the 401-425 level.**
- SPN 543 Don Quixote (3)**
This course will be a close reading of Cervantes' masterpiece Don Quixote, often referred to as the first modern novel, and second most published and read book after the Bible. Students will learn to recognize the different literary genres involved in the making of Don Quixote as well as to contextualize the work within Golden Age Spain. **P: Six credits at the 401-425 level.**
- SPN 545 Fifteenth-Century Sentimental Novel (3)**
Analysis of this late medieval genre based on the relationship between lovers who have never had physical contact. Among various works, *Siervo Libre de Amor* and *La Carcel de Amor* will be examined. **P: Six credits at the 401-425 level.**
- SPN 547 Nineteenth-Century Spanish Novel (3)**
This course explores the last three decades of 19th Century in Spain where the novel becomes a new approach to observe social domains. It will be concentrated on the work of five major authors: Juan Valera, Benito Perez Leopold Alas (Clarín), Emilia Pardo Bazan and Vicente Blasco Ibanez. **P: Six credits at the 401-425 level.**
- SPN 550 Literature of the Colonial Period (3)**
Study of the major works from Columbus to Juana Inés de la Cruz. **P: Six credits at the 401-425 level.**

- 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: Six credits at the 401-425 level.**
- 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: Six credits at the 401-425 level.**
- SPN 554 Twentieth-Century Latin-American Poetry (3)**
A study of Latin-American poetry from the Vanguardista period to the contemporary scene. **P: Six credits at the 401-425 level.**
- 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: Six credits at the 401-425 level.**
- 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: Six credits at the 401-425 level.**
- SPN 559 Contemporary Peninsular Spanish Literature (3)**
This course will give students the opportunity to approach Contemporary Peninsular Spanish Literature through a close reading of key works in narrative, poetry and theater. It will cover the era of the transition from the Francoist regime to today’s multiregional democracy (1950-2000). Students will read a selection of works from authors most representative of this time period. **P: Six credits at the 401-425 level.**
- SPN 560 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: Richard Rodriguez, Julia Alvarez, Cristina Garcia, Sandra Cisneros, Roberto Fernandez, Sandra Benitez and Esmeralda Santiago. **P: Six credits at the 401-425 level.**
- SPN 561 From the Generation of 1898 to the Avant-Garde (3)**
Reading and analysis of the major works of the following novelists and nonfiction writers: Unamuno, Valle-Inclán, Baroja and Azorín. **P: Six credits at the 401-425 level.**
- SPN 563 Feminine Voices from Latin America and Spain (3)**
This course focuses on the writings by some of the most representative female writers from Latin America and Spain. Particular attention will be paid to women’s roles in society and to the specific themes chosen and their social political significance. **P: Six credits at the 401-425 level.**
- 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 312.**
- SPN 565 Nineteenth-Century Latin-American Novel (3)**
This course studies the evolution of the Latin American novel from the period immediately before the independence from Spain to Modernism at the end of the century. It will examine the main literary movements from Romanticism to Modernism and their relationship with the historical evolution and development of Latin American nationalisms. **P: Six credits at the 401-425 level.**
- 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 short stories, plays, essays, poetry, music, and film, students will explore how different art forms contribute to the concept of national identity. The focus will be on 20th Century works. **P: Six credits at the 401-425 level.**

- SPN 570 Contemporary Peninsular Film (3)**
This course focuses on the analysis of cinematographic production in Spain in the post-Franco era. Nuevo Cine Espanol echoes the cultural and artistic preoccupations of the transition years. Students will view and discuss seven significant films by key directors such as Julio Medem, Pedro Almodovar, Bigas Luna and Alejandro Amenabar. **P: Six credits at the 401-425 level.**
- SPN 571 Latin-American Film (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: Six credits at the 401-425 level.**
- SPN 595(493) Directed Independent Readings (1-3)**
Designed to meet the special needs of majors in Spanish. Limit of three semester hours. **P: Six credits at the 401-425 level.**
- SPN 599 Senior Seminar (3) I, II**
A senior capstone course integrating knowledge and skills acquired within the major. All language skills are refined, as depth and nuance are added to the understanding of Hispanic literatures and cultures. Students will submit an individual research project and a reflective essay examining how their project serves as the culmination of their Spanish studies. **P: Six credits at the 401-425 level.**

STATISTICS

- STA 355 Essentials of Epidemiology (3)** (Same as HAP 355, MTH 355)
This course introduces the concepts and includes exercises related to epidemiology, the discipline that serves as the basic science of public health, or population health, by providing evidence for defining the public health problem, assessing causation, and evaluating effectiveness of potential interventions.
- 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 Operations Research (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 150.

- 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 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 153 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 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 131 or 153.**
- THR 357 Costume Design I (3) OD**
Principles of costume design, color, rendering techniques and dramatic analysis. **P: IC.**
- THR 391(151) Production Practicum (1-2) I, II (Same as DAN 391)**
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 four hours of shop work weekly (time scheduled with permission of instructor) or 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 four hours of costume shop work weekly (time scheduled with permission of instructor) or working one production as a wardrobe crew member. This course may be repeated to a limit of eight semester hours.
- THR 428 Film and the Fine Arts (3) OD (Same as 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 355 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 (1-2)**
All THR majors are required to enroll in THR 491 during 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. Performance majors must be involved in an area of technical theatre for at least one show per academic year. Must be repeated for a total of four 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 206.

- 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 101 Theology, Cosmology, and the Environment (3) I**
As the first in the Theology core curriculum, THL 100 introduces students to the Christian religion within the context of global religious diversity. Although labeled THL 101, this course meets the same learning objectives as THL 100. However, THL 101 has been designed especially for the Energy Major. As such it places extra emphasis on the emergence of scientific reasoning and on the relationship between humans and the natural environment.
- 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 the Environment in the Bible (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. Only open to students in the College of Arts and Sciences and School of Nursing. **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 327 Christianity and the Holocaust (3) I**
Christianity has been grappling for over sixty years with the enormity of the Holocaust. This course will investigate the history of Jewish-Christian relations, the New Testament foundations and the articulation of central Christian doctrines that encouraged Anti-Judaism, and the efforts being made by Christians to re-think identity and doctrine vis-à-vis Judaism.
- 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; Jr. 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 336 Divine Providence and the Problem of Climate Change (3)**
The course will first examine the problem of climate change. It will then take up the question of God's relationship to the created universe by reflecting upon the Christian doctrine of providence. Finally, it will develop, in conversation with Catholic Social teaching, the grounds for an ethic of the future. **P: THL 101.**
- THL 338 Eucharist: Liturgical Theology and Practice (3) I, II**
Study of the Eucharist from an ecumenical perspective. The course is intended for Catholic & 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 343 Ecclesiology in Global Context (Same as JPS 343)**
The global Catholic Church is a worthy object of study and understanding and this is best done through direct immersion with a travel course. Each area of the world provides a unique cultural embodiment of the call of the Second Vatican Council to read the signs of the times and interpret them in the light of the Gospel (Guadium et Spes no. 4).
- 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 349 Egyptian Art and Archeology** (3) OD (Same as ARH 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 Israel and Jordan** (3) OD (Same as ARH 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 Religions** (3) OD (Same as AMS 358, ANT 358, 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 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(550) 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 415 Stories that Shape Lives (3) OD** (Same as SRP 415)
This course examines both classic stories and the implicit stories embedded in contemporary cultures. By “classic stories” is meant fables, biblical parables, and stories of holy people. By “implicit stories embedded in contemporary culture” is meant the “lived stories” embodied in the cultures from which our students come and in which they live. We address story (as human activity) and stories (as concrete cultural artifacts) from a variety of perspectives especially those of literary criticism, biblical exegesis, and the cross-cultural and historical study of spirituality. **P: Sr. stdg. and PHL 250 or THL 250.**
- 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 ARH 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 505 History of Biblical Interpretation (3)**
A wide-ranging historical examination of the ways in which individuals and communities have understood and appropriated the texts of the Bible. Specific topics include theologies of Scripture, inner-biblical interpretation, early Jewish and Christian exegesis, medieval interpretation, and the study of the Bible during the Renaissance, Reformation(s), scientific revolution, and the modern period. **P: THL 100 and 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 various approaches contemporary women are taking to the biblical texts. **P: THL 100 and a 200-level Scripture course and Jr. stdg.**

- 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 523 Israelite Religions** (3) (Same as CNE 523)
This course will examine the manifold expressions of Israelite religions - biblical, archaeological, and epigraphic. Emphasis will be placed on the diversity of Israelite religions and the relationship of Israelite religions to the religions of her Near Eastern neighbors. **P: 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, Judean 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 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 536 The Mystery of God and the Suffering of Human Beings (3)**
This course will treat the problem of reconciling the Christian claim that God is love, as expressed in the doctrine of providence, with the reality of human suffering.
- 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 careful 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 541 God is Green (3)**
This course explores Christian environmentalism in historical and contemporary context. Topics include the ancient church, the reformation, the impact of modern science, environmental ethics, Catholic magisterial teaching, and Christian environmental spirituality.
- 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.**
- THL 556 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.**

CHRISTIAN LIFE STUDIES (THL 560-590)

- 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 566 Catholic Social and Sexual Ethics (3)**
This course investigates, compares, and contrasts the methodological foundations of Catholic social and sexual ethics using Scripture, tradition, reason, and experience. It also explores and critically analyzes Catholic social and sexual teaching on issues such as poverty, immigrant rights, cohabitation, and homosexuality from various theological, sociological, historical, cultural, and biological perspectives.
- 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 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 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. 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 594 Special Seminar in Biblical Studies** (3)
May be repeated to a limit of six hours. **P: DC.**
- THL 596 Special Seminar in Historical-Doctrinal-Liturgical Studies** (3)
May be repeated to a limit of six hours. **P: DC.**
- THL 598 Special Seminar in Christian Life Studies** (3)
May be repeated to a limit of six hours. **P: DC.**

Graduate-level courses offered by the Department of Theology are listed in the Graduate issue of the *Creighton Bulletin*.

WOMEN'S AND GENDER STUDIES

For the Women's and Gender Studies Program of Study, please refer to page 214.

- WGS 300(200) Introduction to Women's and Gender Studies** (3) OD
This introduction to the interdisciplinary fields of Women's and Gender Studies presents a historical, sociological, cultural, and theoretical overview of how gender has been lived and understood over the past two hundred years. In addition to providing the basic vocabularies and concepts central to women's, feminist, and gender studies, the course will enable students to analyze the ways in which conceptions of "womanhood" and "manhood" intersect with class, race, ethnicity, sexuality, ability, and age to define social categories, shape identities, and form (or re-form) systems of power, privilege, and oppression.
- 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 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 AMS 360, 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 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 435 Women, Art and Society** (3) (Same as ARH 435)
This course is an exploration of women both as the subjects and the creators of art from antiquity to the present. In this class we will examine the creation, modification and persistence of images of women throughout history, while at the same time we will survey the history of women artists and their artistic contributions. In studying these works of art, we will place equal emphasis on formal analysis and on contextual history.

- WGS 440 Gender Communication (3) II** (Same as COM 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 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.**
- WGS 462 Gender, Work, and Organizing (3) OD** (Same as COM 462)
This course explores what it means to "work" and organize in a gendered world from a communicative perspective. Topics include how labor is valued differently whether performed in the public (i.e., business and government) or private realm (i.e., domestic work, childcare and eldercare) - and by whom such labor is performed.
- WGS 464 Gender and Sexuality in East Asia (3) II** (Same as HIS 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.**
- 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 477 Gendered Health Across the Lifespan (3)** (Same as COM 477, HAP 477, SRP 477)
A great human concern in our society is the gendered construction of health and how individuals are affected by health decisions. This interdisciplinary course will explore gendered health issues from a unique perspectives involving ethical, biocultural and psychosocial perspectives across the lifespan. The first part will lay the theoretical groundwork and identify policy and ethical concerns; the second part will examine gendered health issues across the lifespan. **P: Sr. stdg. and PHL 250/THL 250.**
- WGS 479 The Philosophy of Love and Sex (3) OD** (Same as PHL 479)
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: PHL 201, PHL 250, PHL 312, or PHL 320.**
- WGS 495 Directed Independent Study (1-3) OD**
May be repeated to a limit of six hours. **P: DC.**
- 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.**
- WGS 551 Women Writers in French and Francophone Literature (3) OD** (Same as FRN 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.**
- WGS 568 Women in the Christian Tradition (3) OD** (Same as THL 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.**

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FACULTY

The year appearing in parentheses after the academic rank and official position indicates the beginning of service at Creighton University. The second date, if given, indicates the year of appointment to present rank.

- AMY A. ABBOTT, *Associate Professor of Nursing* (1996; 2011).
B.S.N., Creighton University, 1992, M.S. in Nursing, 1998; Ph.D., University of Nebraska Medical Center, 2008.
- JEROLD J. ABRAMS, *Associate Professor of Philosophy* (2005; 2007).
B.A., Gonzaga University, 1993; Ph.D., Saint Louis University, 2000.
- ROGER C. AIKIN, *Associate Professor Emeritus of Fine and Performing Arts* (1980; 2006).
B.A. University of Oregon, 1969; Ph.D. University of California at Berkeley, 1977.
- SUSAN AIZENBERG, *Associate Professor of English* (2001; 2006).
B.F.A., University of Nebraska, Omaha, 1989; M.F.A., Vermont College, 1992.
- SYED JAVED ALI, *Instructor of Chemistry* (2007).
B.S. Anna University (India), 1997; M.S. (1999); M.S. Texas Tech University, 2006.
- JOSEPH ALLEN, *Assistant Professor of Psychology* (2010).
B.S. Brigham Young University, 2005; M.A., University of North Carolina at Charlotte, 2008.
- LITTLETON ALSTON, *Associate Professor of Fine Arts* (1990; 1996).
B.F.A., Virginia Commonwealth University, 1981; M.F.A., Maryland Institute, College of Art, 1983.
- MICHAEL P. ANDERSON, *Assistant Professor of Chemistry* (1989).
B.A., University of Minnesota, Duluth, 1967; M.S., Michigan Technological University, 1969; Ph.D., University of Minnesota, Minneapolis, 1983.
- JULIAN ARRIBAS, *Professor of Modern Language and Literatures* (2010).
B.S., Universidad Pontifica, 1982; M.A., Universidad de Salamanca, 1983; M.A., University of Michigan, 1988; Ph.D., 1993.
- MARILEE AUFDENKAMP, *Assistant Professor of Nursing* (1999; 2005).
B.S.N., Creighton University, 1991; M.S. in Nursing, Creighton University, 1999.
- JAMES T. AULT III, *Associate Professor of Sociology* (1970; 1992).
B.A., University of Tulsa, 1965; M.A., 1967.
- CHARLES F. AUSTERBERRY, *Assistant Professor of Biology* (1987).
B.A., Kalamazoo College, 1979; Ph.D., Washington University, 1987.
- MATTHEW K. AVERETT, *Assistant Professor of Fine and Performing Arts* (2007).
University of Missouri Columbia 1991; M.A., 1999; Ph.D., 2006.
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B.A., University of California, Los Angeles, 1982; B.A., University of California, Irvine, 1984; M.A., Cornell University, 1987; Ph.D., 1995.

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B.S.N., University of Nebraska, 1975; M.S.N., 1979; Ph.D., University of Nebraska Medical Center, 1993.
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- DAVENDER S. MALIK, *Professor of Mathematics* (1985; 2000).
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B.A., St. Francis College (Wisconsin), 1956; S.T.L., Pontifical Antonian Athenaeum (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, *Assistant Professor of Nursing* (2005; 2007).
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.
- STEPHEN M. MARVIN, *Assistant Professor of Military Science* (2009).
B.S., University of Nebraska, Kearney, 1994.
- BRUCE M. MATTSON, *Professor of Chemistry* (1977; 1994).
B.A., Southwest Minnesota State University, 1973; Ph.D., University of Minnesota, Minneapolis, 1977.
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B.A., University of Minnesota, 1991; M.A., University of Nebraska, Lincoln, 1998; Ph.D. 2003.
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B.A., Scripps College, 1995; M.A., University of California, Los Angeles, 1998; Ph.D., 2003.
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B.A., University of Nebraska, Omaha, 1977; M.A. Seton Hall University, 2005; Ph.D. Gonzaga University, 2009.
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- 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.
- PHILIP J. MEEKS, *Associate Professor of Political Science* (1992).
B.A., University of Notre Dame, 1972; Ph.D., University of Texas at Austin, 1980.
- GARY D. MICHELS, *Associate Professor of Chemistry* (1986; 1993).
B.S., Creighton University, 1971; Ph.D., Iowa State University, 1978.
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- RICHARD W. MILLER, *Associate Professor of Theology* (2005; 2011).
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- MARGO MINNICH, *Assistant Professor of Nursing* (2011).
B.S.N., Purdue University, 1994; M.S.N., University of North Carolina, Charlotte, 2002.
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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); *Associate Dean of Graduate Programs, College of Business Administration* (2007).
B.A., The College of Wooster, 1983; M.B.A., Indiana University, 1989; Ph.D., 1990.
- GERI MOORE, *Instructor of Exercise Science* (1995; 2000).
B.S., University of Nebraska, Lincoln, 1987; M.A., University of Nebraska, Omaha, 1988.
- JOHN N. MORDESON, *Professor of Mathematics* (1963; 1971); *Holder of the John N. Mordeson Chair in Mathematics*.
B.S., Iowa State University, 1959; M.S., 1961; Ph.D., 1963.

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B.A., San Jose State University, 1994; M.A., University of Arizona, 1998; Ph.D., 2001.
- KATHLEEN MORRIS, *Instructor of Nursing* (2010).
B.S.N., Methodist College, 2005; M.S.N., University of Nebraska Medical Center, 2010.
- 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.
- DAVID MULLINS, *Assistant Professor of English* (2010).
B.A., University of San Diego, 1996; M.F.A., University of Iowa, 2005.
- J. PATRICK MURRAY, *Professor of Philosophy* (1979; 1994).
B.S., Marquette University, 1970; Ph.D., St. Louis University, 1979.
- REBECCA K. MURRAY, *Associate Professor of Sociology* (2005; 2011).
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 Business Intelligence and Analytics* (1998); *Chair, Department of Business Intelligence and Analytics* (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.
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- 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 Emeritus of Biology* (1970; 1982; 2006).
B.S., Arizona State University, 1967; Ph.D., 1971.
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- THOMAS O. NITSCH, *Professor Emeritus of Economics* (1963; 1966; 1969; 1998).
B.B.A., St. Mary's University, 1953; Ph.D., Ohio State University, 1963.
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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.
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B.A., Stetson University, 1983; M.T.S., Weston School of Theology, 1988; M.A., Catholic University of America, 1990; Ph.D., 1993.

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B.S., University of Nebraska, Omaha, 1973; M.S., 1978; Ph.D., University of Nebraska, Lincoln, 1992.
- ANNE C. OZAR, *Assistant Professor of Philosophy* (2008).
B.A., Loyola University, Chicago, 2000; M.A., Fordham University, 2003; M.Phil., 2005; Ph.D., 2008.
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