

# Creighton University General Information

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## About Creighton

There is no university in the country like Creighton University in terms of size, the array of professional and graduate programs offered, and the strong commitment to Catholic and Jesuit ideals and values. Founded in 1878 and one of 28 Jesuit colleges and universities in the United States, Creighton is a vibrant and diverse learning community.

Nationally recognized for providing a challenging and balanced educational experience, the University offers a rigorous academic agenda with a broad range of disciplines, providing more than 8,000 undergraduate, graduate and professional students with interdisciplinary degree programs that emphasize education of the whole person -- academically, socially and spiritually. Students are taught by 541 full-time faculty and 241 part-time faculty in nine schools and colleges. In addition to the College of Arts and Sciences, which enrolls close to 30 percent of the University's students, Creighton schools and colleges include the Heider College of Business, College of Nursing, College of Professional Studies, the Graduate School, and Schools of Dentistry, Law, Medicine, and Pharmacy and Health Professions.

Students can participate in Creighton's service-learning semester in the Dominican Republic (Encuentro Dominicano), enroll in faculty-led courses taught abroad or study at one of 165 institutions located in 55 countries through Creighton exchanges.

## 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 is the heart of a metropolitan area of nearly one million. The city is the major urban area between Chicago and Denver and between Kansas City and Minneapolis.

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 TD Ameritrade Park, 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 Big East Conference, hosted the NCAA College World Series for the 65th consecutive year in June 2014. In addition, the Olympic Swimming Trials, and NCAA Final Four Volleyball Tournament, NCAA regional Men's Basketball 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. CenturyLink 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. 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.

## Creighton Colleges and Schools

### College of Arts and Sciences (<http://ccas.creighton.edu>)

The College of Arts and Sciences is the largest and the oldest of Creighton's nine colleges and schools. The college offers 63 majors and 53 minors and research opportunities for undergraduates in all disciplines. The College has more than 359 full- and part-time faculty, the majority of whom hold

the highest degrees awarded in their fields. Fifty percent of graduates are accepted to graduate and professional schools.

Two new degrees are offered in Renewable Energy: a Bachelor of Arts in Sustainable Energy and a Bachelor of Science in Energy Science. Annually 225 students study abroad through summer programs led by the college's faculty. The Department of Journalism, Media and Computing prepares students for success in this information-rich world by melding programs in journalism, graphic design and computing.

## **Heider College of Business (<http://business.creighton.edu>)**

In 1920, the Creighton College of Commerce, Accounts and Finance was opened in direct response to the educational needs of World War I veterans. In 1956, the name was changed to the College of Business. More than 1,200 students are enrolled; over 850 undergraduates and over 350 graduate students. They are taught by 51 full-time faculty and hundreds of business professionals who add their expertise to the classroom.

The College consistently receives national recognition for its programs and offers 3,000 local and national internship opportunities annually. Ninety-eight percent of business graduates are employed within six months of graduation go on to graduate or professional schools.

The College leverages its nine schools and colleges on behalf of business students. This interdisciplinary approach provides exposure to skills in multiple areas. At the same time, the College couples real-life experience with innovative course offerings.

## **College of Nursing (<http://www.creighton.edu/nursing>)**

The College of Nursing has achieved a national reputation for innovative programs that keep pace with the ever-changing field of nursing. Creighton was the first nursing school in Nebraska to offer a Doctor of Nursing Practice (DNP) degree and preparation for one of the newest nursing roles, the Clinical Nurse Leader. The College offers two pathways leading to a Baccalaureate degree. The traditional BSN program is designated for traditional high school student graduates or transfer students.

In 1928, the St. Joseph School of Nursing began its affiliation with Creighton University.

## **College of Professional Studies and Summer Sessions (<http://succeed.creighton.edu>)**

College of Professional Studies (formerly known as University College) opened in the fall of 1983 for nontraditional and adult students offering programs of study leading to baccalaureate degrees, associate degrees and certificates. Students can choose from the traditional majors offered by the College of Arts and Sciences and Heider College of Business, an accelerated degree program with three majors, and a fully on-line bachelor's degree completion program in Leadership. All programs build upon the University's common CORE curriculum and offer programs of study in a variety of formats that fit the needs of working adults.

The Independent Study Program offers students the opportunity for access to undergraduate CORE courses developed by Creighton University faculty members. These courses are completed within a

6 month time frame and the same high degree of instructional quality as the face-to-face equivalent is maintained.

Summer Sessions joined College of Professional Studies in spring 1990. Graduate and undergraduate courses are offered during the 13 weeks of summer. Day, evening, and on-line are offered in varying lengths from 3- week to 5-week sessions. Several summer travel programs offering college credit are also available.

## **Graduate School (<http://succeed.creighton.edu>)**

The Graduate School was formally established as a separate division of Creighton University in 1926, although the first master's degree was conferred by the University in 1893. Currently the School offers more than 35 different programs at the master's and doctoral levels.

## **School of Dentistry (<http://www.creighton.edu/dentalschool>)**

The School of Dentistry was founded in 1905, forming a remarkable legacy for being "unsurpassed in the West" - and continues that reputation today as it enters its second century of excellence in dental education. More than 5,000 students have graduated from the School of Dentistry, coming from throughout the nation.

## **School of Law (<http://law.creighton.edu>)**

The School of Law was founded in 1903. In 1907, the Creighton School of Law became just the second religiously affiliated law school to be granted full accreditation by the Association of American Law Schools, and in 1924 one of the first three religiously affiliated law schools to be accredited by the American Bar Association.

## **School of Medicine (<http://medschool.creighton.edu>)**

The School of Medicine opened in 1892 and in addition to its main campus in Omaha has a regional campus at St. Joseph's Hospital and Medical Center in Phoenix, Arizona. The school provides a comprehensive medical education leading to the M.D. and several joint degree programs including the M.D./Ph.D., M.D./M.B.A., M.D./Masters in Health Care Ethics, and M.D./Masters in Clinical and Translational Sciences. Students are committed to the service of others through their involvement in the student-run Magis Clinic, Project CURA, Institute for Latin American Concern, and numerous other service-oriented projects. Creighton consistently matches students into competitive medical specialty areas and programs throughout the country and graduates currently practice in all 50 states.

## **School of Pharmacy and Health Professions (<http://spahp.creighton.edu>)**

The School of Pharmacy began in 1905. In 1982, the Division of Health Professions (formerly attached to the School of Medicine as the Division of Allied Health Sciences) became part of the School of Pharmacy to form the School of Pharmacy and Health Professions. Programs are available in Pharmacy, Occupational Therapy, and Physical Therapy.

# Mission, Learning Outcomes, and Goals and Objectives

## Mission Statement

Creighton is a Catholic and Jesuit comprehensive university committed to excellence in its undergraduate, graduate and professional programs.

As **Catholic**, Creighton is dedicated to the pursuit of truth in all its forms and is guided by the living tradition of the Catholic Church.

As **Jesuit**, Creighton participates in the tradition of the Society of Jesus which provides an integrating vision of the world that arises out of a knowledge and love of Jesus Christ.

As **comprehensive**, Creighton's education embraces several colleges and professional schools and is directed to the intellectual, social, spiritual, physical and recreational aspects of students' lives and to the promotion of justice.

Creighton exists for students and learning. 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.

Creighton faculty members conduct research to enhance teaching, to contribute to the betterment of society, and to discover knowledge. Faculty and staff stimulate critical and creative thinking and provide ethical perspectives for dealing with an increasingly complex world.

## 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. Ignatian 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 program defines its learning goals/graduate outcomes, and these outcomes should be in alignment with each College/School's goals as well as the broader university-wide goals. A variety of outcome measures are used within each of the 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.

## Accreditations and Approvals

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.

Higher Learning Commission

230 South LaSalle Street, Suite 7-500, Chicago, Illinois 60604-1411

Phone: 800.621.7440 / 312.263.0456 | Fax: 312.263.7462 | [info@hlcommission.org](mailto:info@hlcommission.org)

The Heider College of Business is an accredited member of the Association to Advance Collegiate Schools of Business-AACSB (<http://www.aacsb.edu/accreditation>) International (graduate and undergraduate programs). The accounting program has been accredited (Type A - baccalaureate) by the Accounting Accreditation Committee of the Association.

The Creighton University EMS Education Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP (<http://www.caahep.org>)) upon the recommendation of the Committee on Accreditation of Education Programs for the Emergency Medical Services Professions. The program also is approved by the State of Nebraska.

The College of Nursing baccalaureate, master's and doctoral programs are accredited by the Commission on Collegiate Nursing Education (CCNE (<http://www.aacn.nche.edu/ccne-accreditation>)). The baccalaureate program is approved by the State of Nebraska.

The Department of Social Work is an accredited Council on Social Work Education (CSWE (<http://www.cswe.org/Accreditation.aspx>)) 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 (NCATE (<http://www.ncate.org/Accreditation/tabid/100/Default.aspx>)) 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 dental education program of the School of Dentistry is accredited by the Commission on Dental Accreditation (CODA (<http://www.ada.org/117.aspx>)). The Commission is a specialized accrediting body recognized by the U.S. Department of Education.

The Creighton University School of Law is fully accredited by the American Bar Association Section (ABA ([http://www.americanbar.org/groups/legal\\_education/resources/accreditation.html](http://www.americanbar.org/groups/legal_education/resources/accreditation.html))) of Legal Education and Admissions to the Bar. The School of Law is also a member of the Association of American Law Schools.

The School of Medicine is fully accredited by the Liaison Committee on Medical Education (LCME (<http://www.lcme.org>)), representing the Association of American Medical Colleges and the Council on Medical Education of the American Medical Association. The Department of Education recognizes the LCME for the accreditation of programs of medical education leading to the M.D. degree in institutions that are themselves accredited by regional accrediting associations. Institutional accreditation assures that medical education takes place in a sufficiently rich environment to foster broad academic purposes. The School of Medicine is also an institutional member of the Association of American Medical Colleges.

The School of Pharmacy and Health Professions programs are accredited as follows:

The Pharmacy program, accredited by the Accreditation Council for Pharmacy Education (ACPE (<https://www.acpe-accredit.org>)), is a member of the American Association of Colleges of Pharmacy.

The program in Occupational Therapy is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE (<http://www.aota.org/en/Education-Careers/Accreditation.aspx>)) of the American Occupational Therapy Association Inc.

The program in Physical Therapy is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE (<http://www.captionline.org/home.aspx>)).

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, 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.

Creighton University is authorized to provide online education (<http://www.creighton.edu/center-for-academic-innovation>) in the following states: Alaska, Arizona, District of Columbia, Georgia, Illinois, Iowa, Maryland, Minnesota, Mississippi, Montana, Nevada, North Dakota, Oregon, Pennsylvania, South Dakota, Utah, Washington, Wisconsin and Wyoming.

Creighton University is registered as a Private Institution with the Minnesota Office of Higher Education pursuant to sections 136A.61 to 136A.71. Registration is not an endorsement of the institution. Credits earned at the institution may not transfer to all other institutions.

Creighton University is authorized by the Washington Student Achievement Council and meets the requirements and minimum educational standards established for degree-granting institutions under the Degree-Granting Institutions Act. This authorization is subject to periodic review and authorizes Creighton University to offer field placement components for specific degree programs. The Council may be contacted for a list of currently authorized programs. Authorization by the Council does not carry with it an endorsement by the Council of the institution or its programs. Any person desiring information about the requirements of the act or the applicability of those requirements to the institution may contact:

Washington Student Achievement Council  
P.O. Box 43430  
Olympia, WA 98504-3430

## University Libraries

The three Creighton University libraries (Reinert-Alumni, Health Sciences and Law) collectively provide access to books, journals, videos and databases, in a combination of electronic and print formats. Research assistance is available in person, telephone, e-mail and chat services. Library resources are available from on and off campus. University Libraries: [www.creighton.edu/libraries/index.php](http://www.creighton.edu/libraries/index.php).

## Campus Facilities

More than 50 buildings comprise Creighton's urban campus setting, providing excellent facilities for the University's academic, residential and extracurricular activities. The 140-acre campus is located near Omaha's downtown area, close to major business employers, arts and culture, entertainment, shopping, sporting venues, hotels and the airport . The main campus extends from Cass Street on the south to Cuming Street on the north and from 17th Street on the east to 32nd Street on the west. The beautifully landscaped, pedestrian-friendly campus has been recognized by the Arbor Lodge Foundation as a Tree Campus USA University, and is the only Nebraska school listed in *The Princeton Review's Guide to 332 Green Colleges: 2014 Edition*, highlighting Creighton's ongoing commitment to sustainability.

## Recognition of Scholarship and Leadership

Creighton University applauds the scholastic effort and achievement of its students. In addition to the numerous scholarships, awards, and honor societies from each School and College that recognize student accomplishments, Creighton is proud to honor students with the following:

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

**Phi Beta Kappa**, Beta of Nebraska (Creighton Chapter). Founded in 1776, Phi Beta Kappa is the nation's oldest honor society. It celebrates and advocates excellence in the liberal arts and sciences, and only 10 percent of American colleges and universities have earned the privilege of hosting a chapter. Once a year, the chapter invites select juniors and seniors with an outstanding academic record in the liberal arts and sciences to become members.

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 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, Alumni Homecoming Weekend, class reunion activities, community service projects, college/school specific activities, young alumni activities, regional events, career networking and social networking. Information on the Alumni Association can be found on the web at [www.alumni.creighton.edu](http://www.alumni.creighton.edu).

## 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 402.280.2749.

## **Military Leave Policy**

Creighton University supports a student who is a member, or who parents a dependent child with a spouse who is a member, of a military reserve unit or the National Guard and is called into active military service by the United States. To assist him/her to maintain his/her status as Creighton student, the University has adopted the following guidelines:

Withdrawal from the University:

1. A student in good standing should immediately file a request for a leave of absence/withdrawal with the dean of the appropriate school or college in which the student is enrolled, along with a copy of the military orders.
2. The leave of absence generally will be granted for one year. However, the deans of the appropriate college are encouraged to grant any request to extend the leave of absence should military service require more than one year.
3. The student will receive a full refund of tuition and fees paid to Creighton University if the request for a leave of absence/withdrawal for military service is filed prior to the last day to drop classes.
4. The student will have a choice of three options if the request for a leave of absence/withdrawal is received after the last day to drop classes:
  - a. A full refund of tuition and fees with no credit awarded for work completed during the semester.
  - b. An Incomplete grade in all courses, upon approval of all instructors, with the right to complete all coursework within one year without further payment of tuition or fees.
  - c. A grade in all courses, upon approval of all instructors, based on work completed to the date of the leave of absence request.
  - d. Options b) & c) may be combined should circumstances warrant.

5. The student will receive prorated refunds for his/her housing and meal-plan, if applicable, based on taking the percentage of days registered at the University over the total number of days in the semester (i.e., beginning with the first day of class and ending on the last day of finals).
6. All applicable financial aid awards will be refunded to the appropriate agencies, and repayments of federal student loans will be calculated in accordance with federal guidelines.
7. While the University will make every effort to accommodate a student returning from active duty, placement in certain honors programs at the University cannot be guaranteed.
8. The student will be required to return university property, such as keys to residence halls, university computer equipment, library books, etc. in order to receive a refund or re enroll.

## Email as Official Means of Communication

The Creighton University assigned e-mail 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 e-mail account. Members who choose to manually forward mail from their University e-mail 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 E-mail address. The University sends much of its correspondence solely through e-mail. 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 E-mail address.

Faculty, staff and students are expected to check their e-mail 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 information regarding our institution's graduation/completion rates, in compliance with the Higher Education Act of 1965, as amended. To request graduation rate information, please contact the University Registrar at 402.280.2702 or registrar@creighton.edu.

## The Jesuit Order

The Jesuits are men who belong to a Catholic religious order called the Society of Jesus. This group was founded by St. Ignatius of Loyola over 460 years ago.

There are about 19,000 Jesuits serving around the world and about 2,800 of them are in the United States within 10 area provinces. The Jesuit Community at Creighton University is the largest community of Jesuits within the Wisconsin Province. While the main focus of the Jesuits is on education, they are also involved in parish work, spiritual direction, retreat centers and social justice work. There are presently 48 Jesuits at Creighton, many of whom are faculty, staff, administrators, chaplains or students.

The Jesuit, Catholic tradition is excellence in higher education that forms women and men to be of service for and with others, and to be empowered to examine, engage and change the world.

## American Jesuit Colleges and Universities

Alabama	Spring Hill College, Mobile
California	Loyola Marymount University, Los Angeles
	University of San Francisco, San Francisco
	University of Santa Clara, Santa Clara
Colorado	Regis College, Denver
Connecticut	Fairfield University, Fairfield
District of Columbia	Georgetown University, Washington
Illinois	Loyola University of Chicago
Louisiana	Loyola University, New Orleans
Maryland	Loyola College, Baltimore
Massachusetts	Boston College, Chestnut Hill
	College of the Holy Cross, Worcester
Michigan	University of Detroit Mercy, Detroit
Missouri	Rockhurst College, Kansas City
	Saint Louis University, Saint Louis
Nebraska	Creighton University, Omaha
New Jersey	Saint Peter's College, Jersey City
New York	Canisius College, Buffalo
	Fordham University, New York
	Le Moyne College, Syracuse
Ohio	John Carroll University, Cleveland
	The Xavier University, Cincinnati
Pennsylvania	Saint Joseph's University, Philadelphia
	University of Scranton, Scranton
Washington	Gonzaga University, Spokane
	Seattle University, Seattle
West Virginia	Wheeling College, Wheeling
Wisconsin	Marquette University, Milwaukee

(Seminaries and high schools are not included in this list.)

### ASSOCIATION OF JESUIT COLLEGES AND UNIVERSITIES

One Dupont Circle, Suite 405

Washington, D.C. 20036

phone: 202.862.9893 fax: 202.862.8523

[www.ajcunet.edu](http://www.ajcunet.edu) (<http://www.ajcunet.edu>)

# Creighton University Administration

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## University Board of Trustees

Mr. Bruce C. Rohde	Chairman, Creighton University Board of Trustees and Chairman and Chief Executive Officer Emeritus, ConAgra Foods, Inc.
Mr. Richard T. Kizer	Vice Chairman, Creighton University Board of Trustees and Chairman, Central States Health and Life Company of Omaha
Mr. Mogens C. Bay	Chairman and Chief Executive Officer, Valmont Industries, Inc.
Mary E. Walton Conti, M.D.	President, XRT Management Services
Ms. Mimi A. Feller	Senior Vice President, Public Affairs and Government Relations, Gannett Co., Inc. (Retired)
Mr. Jack Koraleski	Chairman, President, and CEO, Union Pacific
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Mr. W. Gary Gates	President and Chief Executive Officer, OPPD
Mr. Bruce E. Grewcock	President, Chief Executive Officer, Peter Kiewit Sons', Inc.
George F. Haddix, Ph.D.	Riverton Management Resources, LLC
Mr. Howard L. Hawks	Chairman and Chief Executive Officer, Tenaska, Inc.
Mr. Frank L. Hayes	President, Hayes and Associates, LLC
Mr. Scott C. Heider	Managing Principal, Chartwell Capital, LLC
Mr. Mark Denniston Huber	CEO, Corporate Ventures
Ms. Susan M. Jacques	President and Chief Executive Officer, Borsheim's
Rev. Stephen Katsouras, S.J.	Director, Institute of Catholic Educational Leadership, University of San Francisco School of Education
Melissa C. Kean, Ph.D., MA'93	Centennial Historian, Rice University
Mr. Michael E. Kelly	Chairman, Park National Bank
Rev. Peter J. Klink, S.J.	Former President, Red Cloud Indian School
Mr. Terry J. Kroeger	Publisher and Chief Executive Officer, Omaha World-Herald Company
Rev. Timothy R. Lannon, S.J.	President, Creighton University
Mr. Bruce R. Lauritzen	Chairman, First National Bank of Omaha
Rev. William P. Leahy, S.J.	President, Boston College
Ms. Deborah A. Macdonald	President (Retired), Natural Gas Pipeline Co.

Floyd J. Malveaux, M.D.	Executive Director, Merck Childhood Asthma Network
Mr. Michael R. McCarthy	Chairman, McCarthy Group, Inc.
Ms. Jane Miller	Chief Operating Officer, Gallup Riverfront Campus
Mr. Joseph H. Moglia	Chairman, Ameritrade Holding Corporation
Mr. Chris J. Murphy	Chairman and Chief Executive Officer, First Westroads Bank, Inc.
Mr. Daniel P. Neary	Chairman and Chief Executive Officer, Mutual of Omaha Insurance Company
Mr. James B. O'Brien	President, National Alumni Board
Rev. Roc O'Connor, S.J.	Rector, Jesuit Community, Creighton University
Mr. Mark H. Rauenhorst	President and Chief Executive Officer, Opus Corporation
Mr. Robert A. Reed	President and Chief Executive Officer, Physicians Mutual Insurance Company
Rev. Philip J. Rossi, S.J.	Professor, Department of Theology, Marquette University
Ms. Constance M. Ryan	President, Streck Laboratories, Inc.
Rev. Gerard L. Stockhausen, S.J.	Chief of Staff, Jesuit Conference
Ms. Gail Werner-Robertson	President and Founder, GWR Wealth Management, LLC
Mr. James R. Young	President and Chief Executive Officer, Union Pacific Railroad
Mr. Patrick J. Zenner	President and Chief Executive Officer (Retired), Hoffmann-La Roche, Inc.

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*as of Fall 2014*

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Lawrence D. Gillick, S.J.	Director of Deglman Center for Ignatian Spirituality
Amy Hoover, M.A.	Director of Creighton University Retreat Center
Kyle Lierk, M.Div.	Director of Campus Ministry
Andrea Montoya, J.D.	Director of Institute for Latin American Concern (Omaha)
Susan Naatz, M.A.	Associate Vice President for University Ministry
Kenneth Reed-Bouley, M.S., M.Div., M.B.A.	Director of Center for Service and Justice
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A. James Bothmer, M.A.L.S.	University Librarian
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Internal Audit	
T. Paul. Tomoser, B.S.	Director of Internal Audit
Operations and Continuous Improvement	
Melissa A. Bertelsen	Director of Operations and Continuous Improvement
Marketing & Communication	
TBA	Chief Marketing Officer

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Charisse Williams, *Assistant Dean for Undergraduate Business Programs*

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## **School of Pharmacy and Health Professions**

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# Undergraduate Catalog

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## Undergraduate Catalog Issue 2014-2015

***College of Arts and Sciences***

***Heider College of Business***

***College of Nursing***

***College of Professional Studies***

This publication contains the most current information available on the subjects covered as of the date of publication. Any updates between the dates of publication of this Catalog and its successor Catalog will be posted on the University's website and are considered a part of this Catalog for all purposes. This publication is not an offer to enter into a contract. Final selection of applicants to be admitted shall be made by the University, which reserves the right to deny admission to any applicant for any lawful reason. The University also reserves the right to modify or eliminate University rules and policies, including without limitation: admission requirements and criteria; course offerings, or location or frequency thereof; course content; grading requirements and procedures; degree requirements; tuition, fee, and board and room rates; financial assistance programs; substantive or procedural student disciplinary rules; and support services, and to apply any such modifications to any student without regard to date of admission, application or enrollment. Students are strongly encouraged to check the University's website for Catalog changes at [www.creighton.edu/registrar/catalogs/undergraduateissue](http://www.creighton.edu/registrar/catalogs/undergraduateissue).

# Academic Calendar

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## Fall Semester 2014

### August

25	Monday	CPS 1st 8-week classes begin.
27	Wednesday	Semester classes begin.
27	Wednesday	CPS 1st 8-week classes last day to register, drop, add.

### September

1	Monday	Labor Day Holiday. No classes.
2	Tuesday	Last day for registration and adding course(s) to schedule.
5	Friday	Last day for dropping individual course(s) from schedule.
17	Wednesday	Mass of the Holy Spirit. 11am, St. John's Church. 11:00am classes canceled.
25	Thursday	Last day to change from credit to audit. Last day to apply for Pass/No Pass status.
26	Friday	CPS 1st 8-week classes last day to Withdraw.

### October

15	Tuesday	Last day to file online Degree Application for December degree conferral.
18	Saturday	CPS 1st 8-week classes end.
19-26	Sunday-Saturday	Fall Recess. No classes.
27	Monday	CPS 2nd 8-week classes begin.
29	Wednesday	CPS 2nd 8-week classes last day to register, drop, add.

### November

3	Monday	Last day to withdraw from courses with a grade of "W."
26-30	Wednesday-Sunday	Thanksgiving Recess. No classes.

### December

2	Tuesday	CPS 2nd 8-week classes last day to Withdraw.
15-20	Monday-Saturday	Final semester examinations.

20	Saturday	CPS 2nd 8-week classes end.
20	Saturday	December degree conferral date.

## Winter 2014-2015

December 19, 2014 - January 16, 2015

## Spring Semester 2015

### January

12	Monday	CPS 1st 8-week classes begin.
14	Wednesday	Classes begin.
14	Wednesday	CPS 1st 8-week classes last day to register, drop, add.
20	Tuesday	Last day for registration and adding course(s) to schedule.
23	Friday	Last day for dropping individual course(s) from schedule.

### February

12	Thursday	Last day to apply for Pass/No Pass status. Last day to change from credit to audit.
13	Friday	CPS 1st 8-week classes last day to Withdraw.
15	Saturday	Last day to submit online Degree Application for May degree conferral.

### March

7	Saturday	CPS 1st 8-week classes end.
8-15	Saturday-Sunday	Spring Recess. No classes.
23	Monday	Last day to withdraw from courses with a grade of "W."
16	Monday	CPS 2nd 8-week classes begin.
18	Wednesday	CPS 2nd 8-week classes last day to register, drop, add.

### April

3-6	Thursday-Monday	Easter Recess. No classes beginning at 5pm Holy Thursday through 5pm Easter Monday.
17	Friday	CPS 2nd 8-week classes last day to Withdraw.

### May

4-9	Monday-Saturday	Final semester examinations.
9	Saturday	CPS 2nd 8-week classes end.

15	Friday	Baccalaureate Mass and other Graduation Ceremonies and Events.
16	Saturday	University Commencement.

## Summer Session 2015

**NOTE:** Please see the Summer School schedule for complete listing of terms, offerings, and deadlines.

### May

18	Monday	Summer sessions begin.
25	Monday	Memorial Day. No classes.

### June

15	Monday	Last day to file online Degree Application for August degree conferral
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### July

3	Friday	Independence Day Recess. No classes.
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### August

22	Saturday	August degree conferral date.
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# Admissions

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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 (p. 9).

## Admission of Freshman Applicants

### 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:
    - i Record of subjects and grades indicating academic potential for college success;
    - ii Personal recommendation from high school counselor.
    - iii 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 (p. 26). (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.

### High-School Subject Pattern

Subject	Minimum Required: Units	Highly Recommended: 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
Totals	16	21

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

## Additional Requirements for College 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 College 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 (p. 570). Additional information may be obtained from the office of the Dean, College of Nursing.

## Admission Procedures

1. Applications can be requested from the Office of Undergraduate Admissions or electronically at [admissions.creighton.edu](http://admissions.creighton.edu) or on the Common Application at [www.commonapp.org](http://www.commonapp.org) (<http://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 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.

## **ACT/SAT Assessment Program**

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. High-school students may obtain full information from their counselor about the ACT (<http://www.actstudent.org/regist/dates.html>) or SAT (<http://sat.collegeboard.org/register>) Assessment, the location of test centers, dates, and how to register for either test.

## **Incoming Credit**

Applicants come to Creighton with high quality academic backgrounds and experiences. Many arrive with possible college credit to be applied to their Creighton degree through one of the following methods:

### **CEEB Advanced Placement**

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.

### **Dual Credit**

Applicants may have earned college credit through Creighton or another regionally-accredited college or university while enrolled in high school. Credit earned in this way through Creighton will

already be on the student's Creighton transcript and considered institutional credit. Dual credit earned through another institution will be reviewed and evaluated by the College after formal acceptance to Creighton. As with other transfer credit, grades of "C-" or better are required and will not count toward the student's grade point average (GPA).

## 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.

## 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 cannot be declined but 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.

## Admission of Transfer Students

Students who are in good standing at another regionally-accredited college and entitled to honorable dismissal may be admitted to Creighton University without examination if they present evidence of satisfactory scholarship. 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 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 Heider College of Business; 20 in the College 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.

## 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 College of Professional Studies. 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.

## Readmission of Former Students

Students previously enrolled who have been out of school for at least one full semester must make formal application for readmission. Admission into the College of Arts and Sciences, Heider College of Business, or the College of Nursing requires an application through the Undergraduate Admissions Office; admission to the College of Professional Studies (formerly University College) occurs with the College of Professional Studies. Official transcripts from any institutions attended since leaving must be sent directly to Creighton from the issuing institutions before readmission can be approved.

All financial and enrollment obligations to the University must be cleared prior to re-enrollment.

A student involved in the Leave of Absence Program (LOAP) is exempt from reapplying 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.

## 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.

## New Student Programs

### Summer Preview Program/Registration

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. Students register during the summer for the fall semester after consultation with a faculty advisor.

### 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.

# Tuition and Fees

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## 2014-15 Tuition and Fee Amounts

Ordinarily tuition and fees and board and room charges are payable in advance for an entire semester or summer session.<sup>1</sup> (See Financial Arrangements (p. 32).) All rates are subject to change without notice.

**\*\*Full-Time Tuition** is for 12-18 credit hours per semester

Arts & Sciences	\$16,898
Heider College of Business	\$16,898
Nursing-Traditional Program	\$16,898
Nursing-Accelerated Program - entered Aug 13/Jan 14 (continuing) - 3 semesters	\$23,289
Nursing-Accelerated Program - entering Aug 14/Jan 15 (new) - 3 semesters	\$23,988
College of Professional Studies	\$12,479

**\*\*Part-Time Tuition** per credit hour is for credit hours under 12 or over 18

Arts & Sciences or Heider College of Business	\$1058
College of Professional Studies (except Leadership)	\$780
College of Professional Studies-Leadership	\$412

**\*\*Tuition per course--Independent Study Program** \$963  
(Correspondence, 3 credit course)

**\*\*Fees per Semester**

University Fee for all full-time students per semester	\$532
University Technology Fee for all full-time students	\$227
University Fee for all part-time students	\$56
University Technology Fee for all part-time students per semester	\$93

**\*\*Other Fees**

Application for Admission Fee	\$40
Orientation Fee (one-time fee charged to all new, full-time, undergraduate students)	\$65
Enrollment Reservation Deposit (credited to tuition)	\$250

Student Health Insurance Premium for six months <sup>4</sup>	\$1,091
Application for Graduation Late Fee	\$50

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:

Late Payment Fee <sup>1</sup> (also see Late Payment Policy)	\$163
Applied Music Fee for registration per credit hour each semester	\$400
Board Rate and Room Rate per semester	See Living Accomodations in this Catalog

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.

- 1 Registration is not complete until financial arrangements have been made.
- 2 College of Professional Studies 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 College of Professional Studies.
- 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.

## Estimating Basic Costs

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

Tuition (full-time program at rate effective August 2013) \$32,812.00

University Fee	1064.00
University Technology Fee	454.00
Board and double room	9,728.00
Total for academic year (two semesters)	44,058.00

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.

## 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 e-mail 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.

## Withdrawals and Refunds

Students withdrawing will be charged tuition and recurring fees on the following basis<sup>1</sup>:

<b>Period of attendance from start of semester</b>	<b>Percent of the semester rate to be charged</b>
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 from a term shorter than the traditional semester will be charged tuition and recurring fees on a prorated basis.

Refunds of room rent due to withdrawal from the University will be prorated on a weekly basis.

<sup>1</sup> 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.

Full time students who withdraw from a course after the last day for registration changes but remain full-time (12 or more credit hours) receive no refund. If a full-time student withdraws 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.

## State Specific Refund Policy

Some states where the University has authorization to operate require a separate tuition refund policy for their residents. These are described below.

*Wisconsin Residents\** (for Wisconsin residents enrolled in on-line programs/courses).

Students have the right to cancel enrollment until midnight of the third business day after receipt of notice of acceptance and are entitled to a full refund of any tuition and other monies paid such as deposits or application fees. Refunds for **cancellation** will be paid within **10** days.

Students who withdraw before completing 60 percent of the term are entitled to partial refunds, prorated in accordance with Wisconsin state policies. The pro rata refund is calculated by the number of class days remaining in the term after the last day completed, divided by the total number of class-days, rounded down to the nearest 10 percent, less a one time application fee [\$50 for undergraduate, \$30 for SPAHP and \$30 for graduate]. The pro rata refund percentage will be applied to tuition and other required costs paid by the student for the term.

All efforts will be made to refund "prepaid" expenses, books, supplies and other charges billed in advance directly to a student's account; unless the student has consumed or used those items and they can no longer be used or returned.

The school will issue refunds within 40 days of the effective date of termination. A written notice of withdrawal is not required. A registered student will be considered as having withdrawn from the University after two consecutive weeks of unexplained absence.

No refund is required for any student who withdraws or is dismissed after completing 60 percent of the potential units of instruction in the current enrollment period unless a student withdraws due to mitigating circumstances, which are those that directly prohibit pursuit of a program and which are beyond the student's control.

*\*The federal guidelines for returning federal Title IV funds will remain intact with NO exceptions.*

- <sup>1</sup> 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.
- <sup>2</sup> 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.

# Financial Aid

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## Eligibility Criteria

To be eligible for Federal and University financial aid programs at Creighton University, you must be

1. a citizen, a national or permanent resident of the United States,
2. in good academic standing,
3. in financial need as determined by the U.S. Department of Education, and
4. a high-school graduate or equivalent pursuing a degree on at least a half-time basis (six hours).

Students from a foreign country may qualify for consideration of a limited number of Creighton funded scholarships.

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

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

## Application Procedures

### Freshmen, Transfer and Returning Students

1. Complete the "Application for Undergraduate Admission." Forward all parts of the application to the Admissions Office. Creighton cannot make a financial aid commitment until you have been granted acceptance by the University.
2. Complete a Free Application for Federal Student Aid (FAFSA) found at [www.FAFSA.ED.gov](http://www.FAFSA.ED.gov) (<http://www.FAFSA.ED.gov>). This is the fastest way to apply for need-based aid. Once you complete the form, submit it directly to the processing address listed on the application. Do not submit until after January 1. All processed FAFSA's should be on file at Creighton by April 1 for priority consideration. Applications received after April 1 will be considered as funding allows. Creighton's FAFSA code number is 002542.
3. If requested, submit the Creighton Financial Aid Application with a copy of the parents' and applicant's 2012 IRS tax transcript to the Student Financial Aid Office by May 1. 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 [creighton.edu/finaid](http://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 full-time (12 hours or more) to less than full-time 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, Heider College of Business, or College 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. Students on disciplinary probation or suspension at Creighton University, as defined in the Student Discipline Policies and Procedures in the Creighton University Student Handbook, are not eligible for Creighton Scholarship funds. 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. [www.creighton.edu/financialaid](http://www.creighton.edu/financialaid)

*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*

*Margaret Stanoscheck Bongers Memorial Scholarship*

*David Black Diversity Scholarship*

*The Rowley "Pat" Irwin Blakeney Scholarships*

*Mildred D. Brown Scholarship*

*Michael A. Byrne Scholarship*

*Sheila Ciciulla Nursing Scholarship*

*Don and Joan Cimpl Athletic Scholarship*

*The College of Business Scholarship*

*College of Business 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*

*Robert M. Dippel Scholarship*

*Dowd Family Scholarship*

*Paul W. Douglas Scholarship*

*James and Mary Foley Scholarship*

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

*Robert "Bob" Gibson Scholarship*

*Jean H. Jerman Gondringer Scholarship*

*John L. Gross Memorial Scholarship*

*Good Family Scholarship*

*William M. Gordan Scholarship*

*Haddix Foundation Scholarship*

*Sally Ann Haddix Memorial Scholarship*

*Mary Halbur Hawver Scholarship*

*Ron Hansen Creative Writing Scholarship*

*Rev. Robert P. Hart, S.J. Memorial Scholarship*

*Happy Hollow Country Club Scholarship*

*Harve B. Heaston Memorial Scholarship*

*Charles & Mary Heider Athletic Scholarship*

*James and Helen Hughes Herbert Scholarship*

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

*Gunnar Horn 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*

*Kicks for a Cure, Inc. Scholarship*

*Thomas M. Kiefer Family Scholarship*

*Edeth K. Kitchens Scholarship*

*T. Leslie Kizer Scholarships*

*KPMG-LLP Foundation Endowed Accounting Scholarship*

*Kroeger Family Scholarship*

*John W. and Ann C. Langley Scholarship*

*Clare Boothe Luce Scholarship*

*Paul Luex Scholarship*

*Deborah Macdonald Foundation Scholarship*

*John L. and Carol V. Maginn Scholarship*

*Walter J. and Ruth C. Maginn Scholarship*

*Paul E. McCarville Scholarship*

*John J. "Red" McManus Scholarship*

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

*Gordon and Gertrude Morrison Scholarship*

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

*Joseph and M. Katherine Murphy Scholarship*

*Nebraska Society of CPA's*

*Laurence R. O'Donnell Scholarship*

*Offenburger-Higgins-McClure Scholarship*

*Omaha Federation of Advertising Scholarship*

*O.P.P.D. J.M. Harding Scholarship*

*Osher Re-Entry 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*

*Leon Schmidman memorial Scholarship*

*Schroedinger's Cat Scholarship*

*Walter and Susan Scott Scholarship*

*College of Nursing Scholarship*

*College of Nursing Alumni Advisory Board Scholarship*

*Dr. John F. Sheehan Scholarship*

*John A. Scigliano Scholarship*

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

*Creighton Memorial St. Joseph Hospital Nursing Alumni Scholarship*

*Pamela L. Turner Memorial Scholarship*

*Joseph Sullivan Scholarship*

*Gilbert C. Swanson Foundation Scholarship*

*H. Margaret Thorough Scholarship*

*Union Pacific College of Business Scholarship*

*Dorothy E. Vossen 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*

*Paul F. and Blanche A. Wenninghoff Scholarship*

*Dr. Joseph B. Wiederholt Scholarship*

*Wesley Wolfe Scholarship*

*Dr. Frank M. and Mary Wolpert DeFilippes Scholarship*

*A. A. and E. Yossem Scholarships*

*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.

*For a complete listing and description of all University Scholarships, please refer to our online listing, [www.creighton.edu/financialaid](http://www.creighton.edu/financialaid).*

*Ahmanson Foundation Scholarships*

*Alexander Open Systems Scholarship*

*Alpha Sigma Nu Scholarship*

*Jeffrey R. Alseth Memorial Scholarship*

*AMDG RAD Scholarship*

*Harold and Marian Andersen Family Fund Scholarship*

*Maure P. and Clifford J. Bauer 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*

*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*

*College of Arts and Sciences Scholarship*

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

*Matthew B. and Marion A. Conway Scholarship*

*James and Barbara Corboy Scholarship*

*Carroll County Scholarship*

*James M. Cox Scholarship*

*Cox Communications Scholarship*

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

*Creighton University Scholarship for Women*

*Dr. James and Karen Cunningham Scholarship*

*Donald and Dolores Curry Scholarship*

*Norma Link Curley Scholarship*

*M. and J. Curran Scholarship*

*Thomas H. and Delphine K. Denesen Scholarship*

*Charles H. and Mary Lou Diers Scholarship*

*Mary Dora Scholarship*

*Rev. William J. Doran, S.J. Scholarship*

*John J. Dougherty Scholarship*

*Leo and Rita Durrett Scholarship*

*Don and Marilyn Duwelius Scholarship*

*Judy and Don Dworak Scholarship*

*EducationQuest Foundation Scholarship*

*Elizabeth Fund for Nurses*

*Dr. Joyce M. Eckblad Scholarship*

*Donald J and Marcia Fagan-Bisenius Scholarship*

*Grace and Robert Fay Scholarships*

*Edward W. and Nancy E. Fitzgerald Scholarship*

*Joseph and Catherine Freimuth/DeLoitte Foundation Scholarship*

*Fogarty Family 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*

*J. Terrence Gleason Scholarship*

*Amelia Bunbury Graff Scholarship*

*Adolph Hallas Scholarship*

*Anna M. and Donald H. Hannasch Scholarship*

*Scott Harman Scholarship*

*Josie Harper Nursing Scholarship*

*D. Paul and Marjorie S. Hartnett Scholarship*

*William Randolph Hearst Foundation Scholarship*

*Heaston, William R., Class of 1977 Scholarship*

*Dr. Irvin L. Heckmann Memorial Scholarship*

*Jane A. and Susan S. Hedequist Scholarship*

*Charles F. and Mary C. Heider Scholarship*

*The Richard J. and Marguerite Heider Endowed Scholarship*

*Richard and Marguerite Heider Arupe HS 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*

*Dr. Ross C. Horning Endowed Scholarship*

*Robert and Jeanette Hunt Family Scholarship*

*Betty Lou H. Jelinek 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*

*Bob Kathol Family 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*

*Dr. Linda Armstrong Lazure, PhD. Scholarship*

*Len Leavitt Memorial Scholarship*

*Michael E. and Mary Neppl Leighton Scholarship*

*Lorge Arts Scholarship*

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

*Lynch-Heaston Scholarship*

*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*

*Judy Sieben McGill Scholarship*

*Rev. William McKenny, S.J. Scholarship*

*Roma Nagengast McGahan Scholarship*

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

*McGuire-Holden Family Scholarship*

*Robert J. McQuillan, M.D. Memorial Scholarship*

*Ruth and Bernard Mehmert Scholarship*

*Everett and Helen Meister Scholarship*

*The Metro Fund*

*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*

*John A. Murphy Scholarship*

*Marjory Mahoney Murphy Scholarship*

*Ruth and Bernard Mehmert Scholarship*

*Dr. James A. and Jeanne M. Murphy Scholarship*

*Dr. Delwyn J. Nagengast Scholarship*

*Thomas and Janet Nichting Scholarship*

*OPPD J. M. Harding Scholarship*

*Mary Jane Oakley Scholarship*

*Dr. James and Sara O'Brien Family Scholarship*

*Orscheln Industries Scholarship*

*Dr. Ray Palmer Baseball Scholarship*

*Richard Pearlman Memorial Scholarship*

*Gerald Petersen Family Scholarship*

*Peter J. Phelan Memorial Scholarship*

*John A. Quinlan Memorial Scholarship*

*Rev. James Quinn Scholarship*

*Jerry Rasmussen Scholarship*

*Mark and Karen Rauenhorst Scholarship*

*Robert and Betsy Reed Scholarship*

*Frank & Sheryl Remar Arts and Sciences Scholarship*

*Frank & Sheryl Remar CoBA Scholarship*

*Henri J. Renard Scholarship*

*B. J. Roberts Scholarship*

*Rowley Family Scholarship*

*Dr. Howard E. Rudersdorf*

*Kent P. and Donna C. Saylor Scholarship*

*John P. Schlegel Scholarship*

*Scholarship for Women in Business*

*Stephanie and David Scott Scholarship*

*Shaughnessy 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*

*Eugene F. Stanton Memorial Scholarship*

*Eugene F. Stanton Memorial Scholarship*

*Joseph F. and A. Anna Statz Family Scholarship*

*William Stockdale Minority Scholarship*

*Stephen R. Summers Memorial Scholarship*

*Lois R. Suzuki Memorial Scholarship*

*Gilbert C. Swanson Foundation Scholarship*

*Selman and Marie Thomas Scholarship*

*Virginia Roehrig Tomczak Scholarship*

*Dennis L. Toohy Memorial Scholarship*

*Margaret Trondle Zenner Scholarship*

*Richard J. Udoujj 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*

*John E. Worth Scholarship*

*Patrick and Peggy Zenner Scholarship*

*Zoellner Family Endowed 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 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. Specific eligibility criteria can be secured from the Human Resources Office.

## 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 College 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 College 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. The Federal government pays interest on the loan while the student is in school. **Please refer to our webpage at [www.creighton.edu/finaid](http://www.creighton.edu/finaid) for the most recent terms, interest rates, conditions and annual amounts of this loan program.**

## Federal 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.

## Summer School Financial Aid

Financial aid during any summer term is normally limited to Pell Grant or Direct 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 "F", "NP", "UN", incompletes and withdrawals will not count as credits earned, but will count as credits attempted.

Baccalaureate Degree seeking students in Arts and Sciences, Business, Nursing or College of Professional Studies may receive financial aid for a total of 170 credit hours attempted or until the degree is acquired, whichever comes first. Students in College of Professional Studies 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 College of Professional Studies 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 accepted 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:

1. Student illness requiring physician's care.
2. 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 [www.creighton.edu/studentemp](http://www.creighton.edu/studentemp). All off-campus jobs, including part-time, internships and full-time jobs, are posted through the Creighton Career Center ([www.creighton.edu/careercenter](http://www.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

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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 Catalog, are designed to assist each student to attain fulfillment in the college environment.

## Living Accommodations

### On Campus Housing

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 Provost 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 Provost 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 Provost 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 2014 are:

<b>Building Type</b>	<b>Room</b>	<b>Annual Rate</b>
Deglman, Kiewit & Gallagher Halls (Freshmen)	Double Occupancy	\$5680
	Private Room	\$8356
Swanson Hall (Freshmen and Sophomores)	Suite	\$5984
	Private	\$8792
McGloin Hall (Sophomores)	Suite	\$6168
	Private	\$9168
Kenefick Hall (Sophomores)	Efficiency Apartment, Double Occupancy	\$6168
	1 Bedroom Apartment, Double Occupancy	\$6256
	Private Room, Efficiency Apartment	\$9168
Heider Hall (9 month) (Sophomores, Juniors, Seniors)	Efficiency Studio Apartment, Double Occupancy	\$6168
	Efficiency Studio Apartment, Private Room	\$9168
	Suite, Double Occupancy	\$6168
	Suite, Private	\$9168
	Small 1 Bedroom Apartment, Double Occupancy	\$6216
	Small 1 Bedroom Apartment, Double Occupancy	\$6216
	Large 1 Bedroom Apartment, Double Occupancy	\$6256
Davis Square, Opus Hall (12 month contract) (Juniors and Seniors)	2/3/4 Bedroom Apartments and Lofts	\$8220
	Efficiency Apartment, Private	\$9240
Heider Hall (12 month contract) (Graduate students, married students, family housing)	Small 1 Bedroom Apartment, Private	\$10080

Large 1 Bedroom Apartment, Private	\$10620
2 Bedroom Apartment	\$12036

<b>Board Plans Type</b>	<b>Annual Rate</b>
19 Meals per week and 40 Dining Dollars per semester	\$4316
15 Meals per week and 100 Dining Dollars per semester	\$4316
12 Meals per week and 160 Dining Dollars per semester	\$4316
SuperFlex - Any 120 meals/200 Dining Dollars per semester <sup>1</sup>	\$2260
Flex 90 - 90 meals/200 Dining Dollars per semester	\$1800
Flex - 60 meals/200 Dining Dollars per semester	\$1350

<sup>1</sup> Available to Kenefick, Heider, Davis, Opus, Off-Campus Only

<sup>2</sup> 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) (<http://catalog.creighton.edu/graduate/tuition-fees/financial-arrangements>) 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 Services-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 semester. 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. All full-time students may qualify for a tuition discount or state funded child care assistance; undergraduate student parents may qualify for priority enrollment. Call 402.280.2460 or access [creighton.edu/childdevelopmentcenter](http://creighton.edu/childdevelopmentcenter) for information.

## 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: [creighton.edu/studentactivities](http://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

American Marketing Association

AMP Dance Club

Astronomy Club

Biology Club

Bluejay Radio

Choral Society

Chess Club

Creighton Students for Life

Creightones

CU Atmospheric Science Society

CU Mock Trial Team

CU Student Organization of Social Workers

Emergency Medical Services Club

Enactus

Environmental Science Club

Exercise Science Excellence in Leadership

Eyes Wide Open

Financial Planning Association

Forensics Team

Green Jays

Health Administration and Policy Student Association

History Club

International Relations Club

Math Club

Minority Association of Pre-Health Students

Oratorical Society

Peer 2 Peer Mentoring

PHI Engaged at Creighton University

Pre-Dental Society

Pre-Law Organization

Pre-Medical Society

Pre-Occupational Therapy Club

Pre-Pharmacy Club

Pre-Physician Assistant Club

Pre-Physical Therapy Club

Pre-Vet Club

Public Relations Student Society of America

Society of Physics Students

Student Art League

Student Education Association of Nebraska

The Observer's Club

Unitas Ductum Ipsum (UDI)

## **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 Students Association

Asian Students' Association

CU African-American Student Association

CU Latino Student Association

French Club

Gender and Sexuality Alliance

German-American Club

Hui O Hawaii

International Student Association

Korean Student Association

Native American Association

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

Creighton Medical Student Government

Creighton Non Traditional Students Union

Creighton Students Union

CU Heider Business Senate

Dental Students Union

Graduate Student Government

Inter Residence Hall Government

Interfraternity Council

Multicultural Advisory Council

Nursing Senate

Panhellenic Council

Pharmacy and Health Professions Student Government

Student Bar Association

## **Greek**

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

Alpha Phi

Association of Multicultural Greek Organizations

Beta Theta Pi

Delta Delta Delta

Delta Zeta

Gamma Phi Beta

Kappa Kappa Gamma

Phi Delta Theta

Phi Kappa Psi

Pi Beta Phi

Sigma Alpha Epsilon

Sigma Phi Epsilon

Sigma Lambda Gamma

Theta Phi Alpha

## **Honor Societies**

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

Alpha Sigma Nu: Jesuit

Beta Alpha Psi: Accounting

Beta Gamma Sigma: Business

Eta Sigma Phi and Creighton Classical Society

Financial Management Association

Freshman Leadership Program

Honors Program

Honors Program Student Advisory Board

National Residence Hall Honorary

National Society of Collegiate Scholars

Omicron Delta Kappa: Leadership

Order of Omega: Greek Life

Phi Sigma: Biology

Phi Sigma Tau: Philosophy

Psi Chi: Psychology

Sigma Tau Delta: English

## **Political**

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

College Democrats

College Republicans

Student Veteran Organization

## **Professional**

Academy of Student Pharmacists

Advocates

American Association of Physicians and Surgeons - Student Chapter

American Constitution Society

American Medical Association Medical Student Section

American Medical Women's Association

Anesthesiology Interest Group

Animal Law Society

Asian Law Student Association

Black Law Student Association

Body Basics

Business Law Society

Catholic Medical Students Association

Christian Medical and Dental Society

Clinical Case Review

Clinical Skills Club

Creative Occupations

Creighton Family Medicine Interest Group in Phoenix

Creighton Graduate Clinic Anatomists

Creighton Law Ambulance Chasers

Creighton Women's Dental Association

CU Medical School OB-Gyn Society

CU Student American Physical Therapy Association

CU Student Occupational Therapy Association

CUSOM Running Buddies (Phoenix)

Employment and Labor Law Society

Environmental Law Society

Estate Planning Law Society

Family Law Students Society

Federalist Society

Fellowship of Christian Law Students

Fit for Life

Friends Organization

Gay Straight Law Alliance

Global Medicine Student Interest Group

Hiking Club - Phoenix Chapter

Immigration Law Society

Intellectual Property Law Society

Internal Medicine Club

International Law Society

Interprofessional Geriatrics Organization

J. Reuben Clark Law Society

Jays for Pediatrics

Kappa Psi Pharmaceutical Fraternity

Latino Law Students Association

Law School Democrats

Law School Republicans

Magis Medical Clinic

Married to Medicine

Maya Community Health Collaborative (MCHC)

Medical Anthropology and Sociology Society

Medical Humanities Club

Medical Genetics Interest Group

Medical Spanish Club

Military Law Society

Military Medical Student Association

Multicultural Health Sciences Students Association

National Community Pharmacists Association

Orthopedic Surgery Interest Group

Partners Against Cancer

Pediatrics Interest Group

Perinatal Experience

Phi Alpha Delta

Phi Delta Chi: Pharmacy

Phi Delta Phi: Law

Phi Lambda Sigma: Pharmacy

Phi Rho Sigma Medical Society

Physical Therapy Leadership Guild

Pi Theta Epsilon: Occupational Therapy

Project CURA

Public Interest Law Forum

Radiology Interest Group

Rho Chi: Pharmacy

Sports and Entertainment Law Society

St. Thomas More Society

Student Empowerment Network

Student Innocence Project Society

Student Interest Group in Neurology

Student National Medical Association

Student Society of Health-System Pharmacy at Creighton

Student Professionalism and Ethics Association

Surgery Club

Wilderness Medical Society

Women's Law Student Association

Young Americans for Liberty

## **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

Creighton Navigators

InterVarsity Christian Fellowship

Muslim Student Association

CU Jews

## 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

Best Buddies of America

Big Jays, Lil Jays

Campus Kitchen

Circle K

Colleges Against Cancer

El Legado de Compasion

Habitat for Humanity Creighton Chapter

Haven: Creighton Women for and with others

Justice Without Borders

Knights of Columbus

Magis Ambassadors

Peer Education at Creighton

The Porto Clinic Student Group

To Write Love on Her Arms

## Social

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

Birdcage

Blue Crew

Bluejay Radio

CSU Program Board

Jazz and Blues Society

Peace and Justice Cooperative

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.

Badminton Club

Bluejay Lacrosse Club

Bluejay Soccer Club

Bluejay Student Officials Association

Club Hockey Team

Creighton Morphsuitsers

Dance Team

Disc Golf Association

Martial Arts Club

Men's Club Volleyball

Outdoor Adventure Club

Rock Climbing Club

Rowing Association

Rugby Club

Running Club

Ski and Snowboard Club

Swim Club

Ultimate Frisbee Organization

Women's Club Soccer

Women's Lacrosse

Women's Ultimate Frisbee Organization

Women's Volleyball Club

## Campus Recreation

The Kiewit Fitness Center (KFC) is located at the heart of campus between residence halls Kiewit and Swanson and connected to the Skutt Student Center.

The Fitness Center has a main activity area which comprises five separate multi-use courts designed for basketball, volleyball, tennis, and badminton. 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.

KFC courts may be reserved for racquetball, tennis, volleyball, and badminton by calling the Campus Recreation Office at 280-2848. Reservations must be made at least one business day (before 4:30pm) in advance. Same day reservations are not allowed. Weekend and Monday reservations should be received by Friday before 4:30pm. Courts may *not* be reserved for basketball or soccer.

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 the University community.

Campus Recreation offers many opportunities for student employment positions: Intramural Sports Officials, Facility Supervisors, Group Fitness Instructors, Office Assistants, and other positions. Applications are accepted year round and staff training is provided.

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, Rasmussen Center, and CU Sports Complex. For more information on IM Sports check out the website: <http://www.creighton.edu/studentlife/campusrecreationintramurals/intramuralsports/>

Sport Clubs are also a popular outlet for students. Sport Clubs provide multiple opportunities for students to become involved with competition with other colleges in non-varsity activities such as: Running, Ice Hockey, Lacrosse, Soccer, Rugby, Volleyball, Ultimate Frisbee, Martial Arts, Disc Golf, Swimming, and Officials Association.

Named after Creighton athletics director Bruce Rasmussen, the Rasmussen Fitness and Sports Center, opened in October 2012. It is located to the east of the Ryan Center and to the north of Morrison Stadium. It features a 4,300 square foot weight/cardio room, 2 lane suspended running track (8.3 laps/mile) and 60 x 40 yard artificial turf Field House. The Field House may not be reserved for individual soccer games but dedicated Open Recreation soccer is offered on Friday and Saturday nights.

For more information on Campus Recreation please stop by the main office in Room 211 of the Kiewit Fitness Center, 402.280.2848.

## **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.

## **Campus Ministry**

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.

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 the 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.

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 lecturers, 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 Orientation

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

## Student Support Services Program

The Student Support Services Program at Creighton seeks to provide academic, emotional, 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 second floor of the Old Gym. Call 402.280.2749 for more information.

## Center for Health and Counseling

The Center for Health and Counseling houses both Student Health and Student Counseling Services and is located in Suite 1034 of the Harper Center Together these services are dedicated to promoting healthy life choices and serving the health and counseling needs of Creighton students.

Academic Year Hours:

Monday, Thursday, Friday 8:00am - 4:30pm

Tuesday 10:00am - 6:30pm

Wednesday 8:00am - 6:30pm

Summer and Academic Year Break Hours<sup>1</sup>:

Monday-Friday 8:00am - 4:30pm

<sup>1</sup> From the Monday after May graduation through Tuesday following Labor Day

## **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 Staff**

Debra C. Saure, MSN, APRN, FACHA Senior Director

Karin T. Priefert, DO, Clinical Director

Angela Maynard, BSN, CPN, Assistant Director, Clinical Services

Susan Weston, RN, Assistant Director, Campus Outreach

### **Mission Statement**

We provide holistic health care that supports students in their academic endeavors and prepares them to make healthy choices throughout their lives. We monitor compliance with University immunization and insurance requirements. Our outreach programs enhance the health of the campus community.

### **Student Health Services**

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

or nurse practitioner provides services. **Services are available to all currently enrolled Creighton University students.**

**Services Available:**

\*Allergy Injections

\*Laboratory/Radiology

\*Sick Care

\*Health and Wellness Promotion

\*Travel Health

\*Physical Exams (including Pap Smears)

\*Immunizations/Flu Shots

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.

Students will be seen in the Center for Health and Counseling, located in Suite 1034 of the Harper Center.

## Who Provides the Services?

Physicians, and nationally certified Physician's Assistants and Nurse Practitioners are the core provider staff. An auxiliary staff of Registered Nurses, Licensed Practical Nurses, Medical Assistants and clerical personnel supports them.

Medical specialty and dental care is provided by referral to physicians and dentists within the community.

## Participating Provider

Our providers participate with many insurance plans, including our University-sponsored 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. These centers have laboratory and x-ray services and can treat most acute illness or 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 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. Learn more about specific issues facing college students and watch from other students regarding campus life, healthy eating on a limited budget, roommate issues, exercise, and so much more at [www.creighton.edu/chc](http://www.creighton.edu/chc)

**Online Student Health:** Please enroll at <https://medicatweb.creighton.edu> to receive secure messages from the Center for Health and Counseling.

**Student Health Services is responsible for maintaining the records that relate to University immunization and health insurance 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. Immunization requirements follow CDC guidelines and are reviewed annually.

### All Students attending classes on Campus:

#### Measles, Mumps, & Rubella (MMR)

2 doses MMR vaccine given after the 1<sup>st</sup> birthday and at least 30 days apart are required of all students born after 1957

OR

Positive blood tests showing immunity for Measles, Mumps and Rubella. (History of illness does NOT meet the **requirement**)

### All Students living on Campus:

**Measles, Mumps, & Rubella (MMR)** (See Above under ALL STUDENTS)

#### Meningitis Vaccine

1 dose Meningitis vaccine given after 16 years of age. Applies to ages 21 and under.

#### Tdap Vaccine

1 dose Tdap vaccine (Tetanus, Diphtheria, Pertussis) given after licensure date: May, 2005

**Varicella (Chicken Pox)** Verification of chickenpox disease

OR

2 doses Varicella vaccine

## **International Students:**

**Must meet requirements for ALL STUDENTS (see above).**

**If living on campus, must also meet requirements for ALL RESIDENT STUDENTS.**

### **Tuberculosis Screening**

Tuberculosis Screening will be done upon arrival to campus unless documentation is provided of a negative PPD skin test done within the past 12 months. \*PPD skin test required regardless of prior BCG vaccine. Student with a history of a positive PPD: Chest X-ray done within the past 12 months in the United States OR QuantiFERON Gold testing

## **Health Science Students enrolled in Dental, EMS, Medical, Nursing, Pharmacy and Health Professions:**

### **Measles, Mumps, & Rubella (MMR)**

2 doses MMR vaccine given after the 1<sup>st</sup> birthday and at least 30 days apart are required of all students, regardless of age

OR

Positive blood tests showing immunity for Measles, Mumps and Rubella. (History of illness does NOT meet the requirement)

### **DPT/Td/Tdap Vaccine**

3 dose series. 1 dose must be a Tdap vaccine given after licensure in 2005.

### **Polio**

3-dose series OR A positive blood test proving immunity.

### **Hepatitis B**

3-dose series AND a positive blood test showing immunity (Hepatitis B surface antibody test). A positive blood test alone meets the requirement.

### **Varicella (Chicken Pox)**

2 doses Varicella vaccine or . History of illness does NOT meet requirement for Health Science Students.

### **Tuberculosis Screening**

- Initial 2-step screening.  
2 separate PPD skin tests given and read at least 1 week apart. 2 tests in a 12 month period also acceptable.
- Annual PPD screening
- Students with a history of a positive skin test: Chest x-ray done in US in the past 12 months
- Annual Provider Review/QuantiFERON Gold

### **Annual Influenza Vaccine**

This is due before December 1 each year.

### **Meningitis Vaccine (IF LIVING ON CAMPUS)**

1 dose Meningitis vaccine given after 16 years of age. Applies to ages 21 and under.

Additional vaccine information can be found at [www.cdc.gov/nip/publications/vis](http://www.cdc.gov/nip/publications/vis) (<http://www.cdc.gov/vaccines/hcp/vis>)

## **University Health Insurance Requirements**

### **University Health Insurance Requirement:**

Comprehensive Health Insurance (Emergency only coverage does not satisfy this requirement) is required for ALL Full-time students<sup>1</sup> and must include the following:

- National Coverage for inpatient and outpatient **medical** care.
- National Coverage for inpatient and outpatient **mental** health care.
- Coverage is currently active and maintained for the entire school year, including summers.
- Offers an unlimited lifetime maximum or meets federal guidelines.

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

<sup>1</sup> Undergraduate: 12 credits/semester; Graduate: 9 credits/semester

## **Creighton University Student Health 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 and eligibility requirements are met.

For additional information please contact Student Health Services:

Phone: 402-280-1278

Fax: 402-280-1859

<http://www.creighton.edu/chc>

# Military and Veteran Affairs

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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 available in Military Science through the College of Arts and Sciences and a major track is available through the College of Business.

## 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**

The National or High School Four-Year Scholarship is for high school students planning on attending a four-year college program. High School Juniors are eligible to start the application process on 1 February but the application must be completed by 28 February or a week prior to the board (whichever is more restrictive) in order to meet the scholarship board. For more information applicant can go to <http://www.goarmy.com/rotc/high-school-students.html> for more detailed information. If you miss the deadline to apply you may still be compete for the campus bases scholarships once in the program.

College Scholarship Program (Campus based scholarships) are those scholarships awarded to a cadet once they are already participating in the ROTC as a cadet. Eligibility is for the college

scholarship program is limited to students already accepted and participating in the ROTC program. Information for the College Scholarship program can be found at <http://www.goarmy.com/rotc/college-students.html>.

Those students receiving an ROTC scholarship will also receive a full room and board incentive award from the University for the semester the scholarship is put into effect and will continue as long as the Cadet meets ROTC academic and physical standards in addition to university academic standards. This policy is subject to annual review by Creighton and can be superseded.

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) 280-1154/1176.

## **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.

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. 402.554.2318

# International Education

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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.

## 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 [www.creighton.edu/internationalprograms](http://www.creighton.edu/internationalprograms) or contact [studyabroadadvisor@creighton.edu](mailto: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 [www.creighton.edu/encuentro](http://www.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 [isep.org](http://isep.org) (<http://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)
- IELI co-curricular activities

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

The Office of International Programs is located on the third floor of Creighton Hall. For information, call 402.280.2221 or visit [creighton.edu/internationalprograms](http://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

## **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:

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.

# The Creighton EDGE

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Education in the Jesuit tradition

Development of God-given talents

Growth of intellectual, cultural and global perspective

Engaged spirit and sense of purpose

The Creighton EDGE® Program is designed to provide Creighton students with a holistic approach to academic advising, the pursuit of advanced studies in graduate/professional school, and career planning. The primary features of the EDGE include alumni networking, mentoring and shadowing, as well as a connection to portfolio-building internship opportunities. The EDGE provides individual and group tutoring, academic coaching, academic counseling, and assistance with any issues that could impact a student's ability to be academically successful at Creighton.

*For more information about the Creighton EDGE, visit our office located in Reinert Alumni Library, Lower Level, or contact us at 402-280-5566 or [EDGE@creighton.edu](mailto:EDGE@creighton.edu). Also visit [www.creighton.edu/edge](http://www.creighton.edu/edge).*

## Courses

### **EDGE 102. EDGE Exploration Seminar. 0 credits. SP**

This seminar is designed for students who are in the exploratory phase of their career development. It is best suited for students who want to explore their interests in relation to possible majors and careers. Students will assess their values, interests, and skills, and be exposed to a variety of information to help them better understand what best suits their educational and professional goals. Throughout the course students will participate in self-assessments, acquire self-knowledge, evaluate majors and career opportunities, and develop an individual career development plan. P: 10 credit hours completed at Creighton University.

### **EDGE 120. Strategies for Academic Success. 2 credits. FA**

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.

### **EDGE 130. Strategies for Student Success. 2 credits. SP**

This course 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.

**PDDS 102. Pre-Dental Education. 0 credits. SP**

Topics covered in this first semester of the Pre-Dental Education series include: professionalism and integrity, volunteering, shadowing, patient confidentiality and medical records, the dental profession, and the dental school application process. Students will be introduced to the "Creighton Online Medical and Professional Application System" (COMPAS) Journal to build an online portfolio of accomplishments, and will learn about the activities and preparation that are necessary to have a competitive application to dental school. Additional advising is also given regarding the selection of academic courses.

**PDDS 201. Pre-Dental Education. 0 credits. FA**

In this second semester of the Pre-Dental Education series, students continue to prepare to apply to dental school by writing a resume, as well as learning about possible research experiences and requesting letters of recommendation. Discernment opportunities include a panel of healthcare professionals from the community and a panel to discuss ways to obtain patient care experience in an employment setting. P: PDDS 102.

**PDDS 202. Pre-Dental Education. 0 credits. SP**

Students receive a more detailed preview of the dental school application in this third semester of the Pre-Dental Education series, and will also learn about the Dental Admission Test (DAT). Preparation options and academic coursework suggestions are provided that will assist with readiness to take this standardized exam. Financial Literacy will be presented so that students can take charge of their finances and plan for professional school expenses. A Self-Assessment Module is also provided to help students take stock of their progress towards a competitive application. Discernment about some alternate pathways to dental school is offered in a panel presentation on Gap Year options, Post-Baccalaureate programs, and Master's degrees. P: PDDS 201.

**PDDS 301. Pre-Dental Education. 0 credits. FA**

Students receive a more detailed preview of the dental school application in this third semester of the Pre-Dental Education series, and will also learn about the Dental Admission Test (DAT). Preparation options and academic coursework suggestions are provided that will assist with readiness to take this standardized exam. Financial Literacy will be presented so that students can take charge of their finances and plan for professional school expenses. A Self-Assessment Module is also provided to help students take stock of their progress towards a competitive application. Discernment about some alternate pathways to dental school is offered in a panel presentation on Gap Year options, Post-Baccalaureate programs, and Master's degrees. P: PDDS 201.

**PDDS 302. Pre-Dental Education. 0 credits. SP**

In this final semester of the Pre-Dental Education series, workshops to review drafts of personal statements are provided as students begin to collect the elements needed for their dental school application. Students are introduced to the on-campus letter of recommendation collection service that they have the option to use. An Interviewing Skills Workshop is presented and students are encouraged to schedule a practice interview in the Career Center before a dental school interview. A thorough review of the Associated American Dental Schools Application Service (AADSAS) is offered. P: PDDS 301.

**PLAW 102. Pre-Law Education. 0 credits. SP**

Topics covered in the first semester of the Pre-Law Education series include: professionalism and integrity, faith and Jesuit values, volunteering, service, shadowing, and introductions to the requirements for law school, the “Creighton Online Medical and Professional Application System” (COMPAS) Journal, and the application process. Financial Literacy will be presented so that students can take charge of their finances and plan for professional school expenses. This series introduces students to the legal profession as well as the preparation for law school application, to include the importance of the Law School Application Service (LSAC).

**PLAW 201. Pre-Law Education. 0 credits. FA**

In this second semester of the Pre-Law Education series, the focus will be on discernment and understanding of the legal profession. Activities will include panel discussions, tours, and experiential learning. Shadowing with professional students and professionals are key components of the discernment process. Other topics are legal-focused service, faith, integrity and professionalism. Students continue to build their application to law school through the “Creighton Online Medical and Professional Application System” (COMPAS) Journal. P: PLAW 102.

**PLAW 202. Pre-Law Education. 0 credits. SP**

Topics in this third semester of the Pre-Law Education series include: resumes, cover letters, personal statements, as well as writing skills that will be crucial as students begin to build their portfolio for law school using the “Creighton Online Medical and Professional Application Service” (COMPAS) Journal. Financial Literacy, integrity and professionalism remain key components. Discernment about legal profession opportunities is offered via panel discussions, guest speakers, and experiential learning and mentoring. P: PLAW 201.

**PLAW 301. Pre-Law Education. 0 credits. FA**

The fourth semester of the Pre-Law Education series is focused on preparing the application to law school and includes personal statement workshops and details about requesting letters of recommendation and the campus letter. A thorough review of Law School Application Service (LSAC) and submission of applications, deadlines, and character and fitness are key components. Students will finalize their application to take the Law School Admission Test (LSAT) as well as continue their discernment of schools and programs for application. P: PLAW 202.

**PLAW 302. Pre-Law Education. 0 credits. SP**

In this final semester of the Pre-Law Education series, workshops to review drafts of personal statements are provided as students finalize the elements needed for their law school application. Students are also advised regarding their progress towards a competitive application, and are encouraged to reflect on their decision to pursue law. Financial options for law school are reviewed. Character and fitness, integrity and professionalism continue to be discussed. Discernment is focused on the transition to the profession. P: PLAW 301.

**PMED 102. Pre-Medical Education. 0 credits. SP**

Topics covered in this first semester of the Pre-Medical Education series include: professionalism and integrity, volunteering, shadowing, patient confidentiality and medical records, the medical profession, and an introduction to the medical school application process. Students will be introduced to the “Creighton Online Medical and Professional Application System” (COMPAS) Journal, and will learn about the activities and preparation that are necessary to have a competitive application to medical school. Additional advising is also given regarding the selection of academic courses.

**PMED 201. Pre-Medical Education. 0 credits. FA**

In this second semester of the Pre-Medical Education series, students continue to prepare to apply to medical school by writing a resume, as well as learning about possible research experiences and requesting letters of recommendation. Discernment opportunities include a panel of healthcare professionals from the community and a panel to discuss ways to obtain patient care experience in an employment setting. P: PMED 102.

**PMED 202. Pre-Medical Education. 0 credits. SP**

Students receive a more detailed preview of the medical school application in this third semester of the Pre-Medical Education series, and will also learn about the Medical College Admission Test (MCAT). Preparation options and academic coursework suggestions are provided that will assist with readiness to take this standardized exam. Financial Literacy will be presented so that students can take charge of their finances and plan for professional school expenses. A Self-Assessment Module is also provided to help students take stock of their progress towards a competitive application. Discernment about the many pathways to medical school is offered in a panel presentation on Gap Year options, Post-Baccalaureate programs, and Master's degrees. P: PMED 201.

**PMED 301. Pre-Medical Education. 0 credits. FA**

This fourth semester of the Pre-Medical Education series provides students with assistance to update their resume, review their activities, and begin to write a personal statement. Additional information regarding ways to prepare and study for the MCAT exam is offered. Students are advised regarding their progress towards a competitive application, and are encouraged to reflect on their decision to pursue medicine. A unique opportunity offered is Shadowing a Medical Student (SAMS), which allows PMED students to visit classes in Creighton's School of Medicine with a medical student mentor. P: PMED 202.

**PMED 302. Pre-Medical Education. 0 credits. SP**

In this final semester of the Pre-Medical Education series, workshops to review drafts of personal statements are provided as students begin to collect the elements needed for their medical school application. The Campus Letter Application process is explained, and students are introduced to the on-campus letter of recommendation collection service that is provided for them. An Interviewing Skills Workshop is presented and students are encouraged to schedule a practice interview in the Career Center before a medical school interview. A thorough review of the American Medical College Application Service (AMCAS) is offered. P: PMED 301.

**POPT 102. Pre-Occupational Therapy Education. 0 credits. SP**

Topics covered in this first semester of the Pre-Occupational Therapy Education series include: professionalism and integrity, volunteering, shadowing, patient confidentiality, the occupational therapy profession, and an introduction to the occupational therapy school application process. Students will be introduced to the "Creighton Online Medical and Professional Application System" (COMPAS) Journal, and will learn about the activities and preparation that are necessary to have a competitive application to occupational therapy school. Financial Literacy is presented so that students can take charge of their finances and plan for professional school expenses. Additional advising is given regarding the selection of academic courses.

**POPT 201. Pre-Occupational Therapy Education. 0 credits. FA**

In this second semester of the Pre-Occupational Therapy Education series, students continue to prepare to apply to occupational therapy school by writing a resume and learning about requesting letters of recommendation. Students continue to build their application to occupational therapy school through the “Creighton Online Medical and Professional Application System” (COMPAS) Journal. Other topics are health-focused service, faith, integrity and professionalism. Activities will include panel discussions, tours, and experiential learning. Shadowing with professional students and professionals are key components of the discernment process. P: POPT 102.

**POPT 202. Pre-Occupational Therapy Education. 0 credits. SP**

Topics in this third semester of the Pre-Occupational Therapy Education series include: resumes, cover letters, personal statements, as well as updates to the “Creighton Online Medical and Professional Application Service” (COMPAS) Journal. A thorough review of the Occupational Therapist Centralized Application Service (OTCAS) and submission of applications and deadlines is provided. Financial Literacy, integrity and professionalism remain key components. Continued discernment about the profession is offered via panel discussions, guest speakers, and experiential learning and mentoring. P: POPT 201.

**POPT 301. Pre-OT Seminar. 0 credits. FA**

This fourth semester of the Pre-Occupational Therapy Education series provides students with assistance to update their resume, review their activities, and complete final draft of personal statement as they collect the necessary elements for submission to the Occupational Therapist Centralized Application Service (OTCAS). An Interviewing Skills Workshop is presented and students are encouraged to schedule a practice interview in the Career Center before an occupational therapy school interview. P: POPT 202.

**POPT 302. Pre-OT Seminar. 0 credits. SP**

In this final semester of the Pre-Occupational Therapy Education series, topics covered include: professional integrity, HIPAA case studies review, and academic success in professional school. Financial Literacy is presented so that students can prepare for the transition from undergraduate to professional school education. P: POPT 301.

**PPA 102. Pre-Physician Assistant Education. 0 credits. SP**

Topics covered in this first semester of the Pre-Physician Assistant Education series include: professionalism and integrity, volunteering and shadowing, patient confidentiality and medical records, patient care experience, the PA profession, and an introduction to the PA school application process. Students will be introduced to the “Creighton Online Medical and Professional Application System” (COMPAS) Journal, and will learn about what activities and preparation are necessary to have a competitive application to PA school. Additional advising is also given regarding the selection of academic courses.

**PPA 201. Pre-Physician Assistant Education. 0 credits. FA**

In this second semester of the Pre-Physician Assistant Education series, students continue to prepare to apply to PA school by writing a resume, as well as learning about available research experiences and requesting letters of recommendation. Discernment opportunities include a panel of healthcare professionals from the community and a panel to discuss ways to obtain patient care experience in an employment setting. P: PPA 102.

**PPA 202. Pre-Physician Assistant Education. 0 credits. SP**

In this third semester of the Pre-Physician Assistant Education series, students receive a more detailed preview of the PA school application and explore PA school programs, as well as learn about the Graduate Record Exam (GRE), which is the current standardized exam students take before applying. Preparation options and academic coursework suggestions are provided that will assist with readiness to take this exam. Financial Literacy will be presented so that students can take charge of their finances and plan for professional school expenses. A Self-Assessment Module is also provided to help students take stock of their progress towards a competitive application. P: PPA 201.

**PPA 301. Pre-Physician Assistant Education. 0 credits. FA**

This fourth semester of the Pre-Physician Assistant Education series provides students with assistance to update their resume, review their activities, and begin to write a personal statement. Further exploration of PA schools, advising regarding prerequisite courses, and continued discernment of the profession will also be included. P: PPA 202.

**PPA 302. Pre-Physician Assistant Education. 0 credits. SP**

In this final semester of the Pre-Physician Assistant Education series, workshops to review drafts of personal statements are provided as students begin to collect the elements needed for their PA school application. An Interviewing Skills Workshop is presented and students are encouraged to schedule a practice interview in the Career Center before a PA school interview. A thorough review of the Centralized Service for Physician Assistant Applicants (CASPA) is also provided. P: PPA 301.

**PPT 102. Pre-Physical Therapy Education. 0 credits. SP**

Topics covered in this first semester of the Pre-Physical Therapy Education series include: professionalism and integrity, volunteering, shadowing, patient confidentiality, the physical therapy profession, and an introduction to the physical therapy school application process. Students will be introduced to the "Creighton Online Medical and Professional Application System" (COMPAS) Journal, and will learn about the activities and preparation that are necessary to have a competitive application to physical therapy school. Financial Literacy is presented so that students can take charge of their finances and plan for professional school expenses. Additional advising is given regarding the selection of academic courses.

**PPT 201. Pre-Physical Therapy Education. 0 credits. FA**

In this second semester of the Pre-Physical Therapy Education series, students continue to prepare to apply to physical therapy school by writing a resume and learning about requesting letters of recommendation. Students continue to build their application to physical therapy school through the "Creighton Online Medical and Professional Application System" (COMPAS) Journal. Other topics are health-focused service, faith, integrity and professionalism. Activities will include panel discussions, tours, and experiential learning. Shadowing with professional students and professionals are key components of the discernment process. P: PPT 102.

**PPT 202. Pre-Physical Therapy Education. 0 credits. SP**

Topics in this third semester of the Pre-Physical Therapy Education series include: resumes, cover letters, and personal statements. A thorough review of the Physical Therapist Centralized Application Service (PTCAS) and submission of applications and deadlines is provided, as well as information about the Graduate Record Exam (GRE), which is the current standardized exam students take before applying. Financial Literacy, integrity, and professionalism remain key components. Continued discernment about the profession is offered via panel discussions, guest speakers, and experiential learning and mentoring. P: PPT 201.

**PPT 301. Pre-Physical Therapy Education. 0 credits. FA**

This fourth semester of the Pre-Physical Therapy Education series provides students with assistance to update their resume, review their activities, and complete final drafts of personal statements as they collect the necessary elements for submission to the Physical Therapist Centralized Application Service (PTCAS). An Interviewing Skills Workshop is presented and students are encouraged to schedule a practice interview in the Career Center before a physical therapy school interview. P: PPT 202.

**PPT 302. Pre-Physical Therapy Education. 0 credits. SP**

In this final semester of the Pre-Physical Therapy Education series, topics covered include: professional integrity, HIPAA case studies review, and academic success in professional school. Financial Literacy is presented so that students can prepare for the transition from undergraduate to professional school education. P: PPT 301.

**PRX 101. Pre-Pharmacy Education. 0 credits. FA**

Topics covered in this first semester of the Pre-Pharmacy Education series include: professionalism and integrity, HIPAA certification, volunteering and shadowing, patient confidentiality, Pharmacy Technician experience, the Pharmacy profession, and introductions to the "Creighton Online Medical and Professional Application System" (COMPAS) Journal and application process. Students will learn about the activities and preparation necessary for a competitive application, and additional advising is given regarding the selection of academic courses.

**PRX 102. Pre-Pharmacy Education. 0 credits. SP**

In this second semester of the Pre-Pharmacy Education series, students receive a more detailed preview of the Pharmacy College Application Service (PharmCAS), to include information about creating a resume, requesting letters of recommendation, and writing personal statements. Financial Literacy is presented so that students can take charge of their finances and plan for professional school expenses. Discernment opportunities include a panel of professional school students. P: PRX 101.

**PRX 201. Pre-Pharmacy Education. 0 credits. FA**

Topics covered in this third semester of the Pre-Pharmacy Education series include: workshops to review drafts of personal statements, information about grief/loss, and a thorough review of the Pharmacy College Application Service (PharmCAS). An Interviewing Skills Workshop is presented and students are encouraged to schedule a practice interview in the Career Center before a pharmacy school interview. A unique opportunity allows pre-pharmacy students to visit classes in Creighton's School of Pharmacy with a pharmacy student mentor. Discernment opportunities include a panel of pharmacy professionals. P: PRX 102.

**PRX 202. Pre-Pharmacy Education. 0 credits. SP**

In this last semester of the Pre-Pharmacy Education series, students continue to build on the "Creighton Online Medical and Professional Application System" (COMPAS) Journal by updating curricular and co-curricular experiences. Other topics covered include: professional integrity, HIPAA case studies review, and academic success in professional school. Financial Literacy is presented so that students can prepare for the transition from undergraduate to professional school education. P: PRX 201.

**RSP 101. An Introduction to the Culture of Collegiate Life. 1 credit. FA**

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, 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. An Introduction to the Culture of College Life. 1 credit. FA**

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, 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 class is taught by a Faculty Preceptor, supported by a Decurion (usually a senior Nursing student personally invited by the Preceptor).

**RSP 103. An Introduction to the Culture of Collegiate Life. 1 credit. FA**

This course introduces first-year students in the College of Business to life at Creighton University. In addition to the topics common to all 100-level RSP courses, students learn about the CoBA's Ratio Studiorum, or plan of study, including the College's six learning objectives 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. 1 credit. FA**

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, 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. Introduction to the Culture of Collegiate Life. 1 credit. FA, SP**

This course introduces transfer students in the College of Arts and Sciences and College of Business to life at Creighton University. In addition to the topics common to all 100-level RSP courses, 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).

## Academic Success

The programs and services with Academic Success focus on academic support, student monitoring and retention, and the academic transition to college. Students are encouraged to take advantage of:

- Our nationally certified **Tutoring Program**, offering drop-in Math and Chemistry tutoring, appointment-based individual tutoring for most subjects, and collaborative learning sessions.
- Individualized **Academic Counseling and Coaching**, where students learn tips and strategies appropriate for their learning styles and personal academic goals.

- **Workshops and Seminars** that teach strategies to help students understand and manage the academic rigor of Creighton. These focus on time management, test anxiety, exam prep, and other fundamental study skills.
- **Academic Strategy Courses**, which are credit-bearing courses designed to help students understand their strengths and areas for improvement as learners.

## Advising and Ratio Studiorum Program (RSP)

RSP (p. 106) is Creighton's academic advising and orientation program for freshmen and sophomores. It introduces students to the requirements, challenges and rewards of life at Creighton. RSP 101-105 Culture of Collegiate Life is taught by Faculty Preceptors, who serve as first- and second-year academic advisors and assist with the development of a student's 4-year academic plan. Students examine such topics as Creighton's Jesuit heritage and values, academic integrity, and the core curriculum. Reading, writing and class discussion entertain issues of self-exploration and self-discovery.

## Learning Communities

Learning Communities allow students with shared academic interests and experiences to come together to discern options in pre-professional study. The seminars and co-curricular activities are designed and offered through the EDGE to strengthen the candidacy of Creighton students as they prepare for the graduate/professional school application process. All Learning Communities provide students with opportunities for mentoring, shadowing and networking with pre-professional students, faculty and alumni.

The Learning Communities are:

- EDGE: Exploration Seminar
- PMED: Pre-Medical Education
- PDDS: Pre-Dental Education
- PPA: Pre-Physician Assistant Education
- PRX: Pre-Pharmacy Education
- POPT: Pre-Occupational Education
- PPT: Pre-Physical Therapy Education
- PLAW: Pre-Law Education

## Creighton Career Center

The Career Center is an integral part of the EDGE and provides students with opportunities to develop relationships with employers, as well as career counseling and job/internship guidance and assistance. Creighton faculty, staff and administrators are also engaged to provide programming and assistance with graduate and professional school options and planning.

## Career and Academic Exploration

The Career Center is designed to assist students from the beginning of academic pursuit straight through to graduation. Career 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. Students are encouraged to contact the office by sophomore year regarding the application process and specific qualifications. All internships are listed online through Jobs4Jays (<http://creighton.edu/careercenter>).

## 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, Suite 2015 and visit our website at [creighton.edu/careercenter](http://creighton.edu/careercenter).

*For more information about the Creighton EDGE, visit our office located in Reinert Alumni Library, Lower Level, or contact us at 402.280.5566 or [EDGE@creighton.edu](mailto:EDGE@creighton.edu). Also visit [creighton.edu/edge](http://creighton.edu/edge).*

## 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 catalog, a student 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, some law schools, including Creighton's School of Law, will consider students enrolled in an approved 3/3 program for admission without receipt of a bachelor's 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 the pre-law advisors in the College of Arts and Sciences, or the Creighton EDGE.

## 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.

## Pre-Dental General Requirements

In general, schools of dentistry require applicants to have completed coursework 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 spring or 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

### Educational Requirements

The minimum educational requirement for admission to the School of Medicine is the completion of a bachelor's degree and all course requirements. Please note that all course requirements need to be completed by June 1 of the matriculating year. **In addition, all course requirements must be completed at an accredited college or university located within the United States or Canada.**

College studies prior to admission to the School of Medicine should include subjects appropriate to a liberal arts education. The following courses are required for admission and are considered essential for the successful pursuit of the medical curriculum at Creighton University.

## Required Courses

- Biochemistry
- Human/Animal Physiology at the advanced level
- Statistics<sup>1</sup>
- English: two courses that emphasize writing

- <sup>1</sup> The statistics requirement may be fulfilled either by completing a specific statistics course, or by completing a non-statistics course that includes coursework that provides the applicant with foundational statistical concepts.

## Preference for Admissions

Preference for Admission will be given to applicants who complete at least one advanced science course, in addition to the required coursework, that builds a foundation within human or molecular-cellular biology.

## Extracurricular Requirements

The Committee on Admissions will select those applicants whom they judge to be the best qualified for the study and practice of medicine. In evaluating the applicants, consideration will be given to all of the qualities considered to be necessary in a physician: intellectual curiosity, emotional maturity, honesty, and proper motivation, and proven scholastic ability.

In addition, the Committee on Admissions **requires** applicants to have a foundation in the following activities:

- Commitment to "service of others" through non-medical volunteer activities
- Physician shadowing experiences
- Patient contact through clinical and/or medical experiences

Scientific research, though not required for admission, is also highly valued by the Committee on Admissions.

## U.S. Residency Requirements

Creighton University School of Medicine requires applicants to be either United States citizens or United States permanent residents in order to qualify for admission.

## MCAT

Applicants are encouraged to take the Medical College Admission Test (MCAT) in the spring or summer of the year preceding their application to medical school. Fall test results may be used in the evaluation of applicants who are not applying under the Early Decision Program (EDP).

In addition to Creighton's course prerequisites, applicants are encouraged to complete courses that will assist them in achieving competitive scores on the MCAT. Applicants should review the MCAT

website for a listing of courses that will provide the academic foundational concepts needed to be prepared to sit for the test.

## Application Process

Applications should be submitted through AMCAS (American Medical College Application Service) as early as possible during the summer between the junior and senior years, if the applicant intends to matriculate in medical school within the same year of graduation with a bachelor's degree. 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. For additional information please review The Creighton University School of Medicine website: [medschool.creighton.edu](http://medschool.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 201, BIO 202, BIO 205, BIO 206)	8
General Chemistry I and II with labs (CHM 203, CHM 204, CHM 205, CHM 206)	8
Organic Chemistry I and II with labs (CHM 321, CHM 322, CHM 323, CHM 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 COM 152)	3
Psychology (PSY 111 or higher level course)	3
Microeconomics (ECO 203)	3
Theology	6
Electives <sup>1</sup>	12

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.

<sup>1</sup> At least nine of the elective hours must be taken in areas other than natural sciences and mathematics.

## 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.

Admission to the Creighton University School of Pharmacy and Health Professions Doctor of Occupational Therapy Program requires 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 General Psychology, 3 Human Development or Abnormal Psychology)	6	9
English Composition	3	4.5
Statistics	3	4.5
Medical Terminology	1	1.5

## 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 with labs (BIO 201, BIO 202, BIO 8 205, BIO 206)

General Chemistry I and II with labs (CHM 203, 8 CHM 204, CHM 205, CHM 206)

General Physics I and II with labs (PHY 211, PHY 8 212)

Human or Mammalian Physiology (BIO 449, BMS 3 303, EXS 320)

English (including Composition, e.g., ENG 150 or 6 ENG 251)

Theology 6

Electives 51

Students applying to the program who do not hold a bachelor's 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.

### For More Information

- Visit our website: [spahp.creighton.edu/admission](http://spahp.creighton.edu/admission)
- Contact our Admission Office: 800.325.2830, ext. 1, or 402.280.2662
- Email us: [phaadmis@creighton.edu](mailto:phaadmis@creighton.edu)
- Write us:

Office of Admission

Creighton University School of Pharmacy and Health Professions  
2500 California Plaza  
Omaha, NE, 68178

# Academic Policies, Procedures, and Information

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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.

## 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.

## The Academic Year

The academic year is divided into two semesters and summer and winter sessions.

### Fall and Spring Semesters

The first semester, referred to as the "Fall" semester, begins in late August and ends before the Christmas holiday; the second semester, referred to as the "Spring" semester, begins in January

and ends in May. In the Fall semester there is a one week mid-semester recess as well as a short Thanksgiving recess. In the Spring semester there is a mid-semester week-long recess as well as a short Easter recess.

## Summer Sessions

Annually summer sessions are held throughout the summer, in shorter length terms. Faculty-led travel courses as well as a variety of short workshops and institutes on topics of current interest are part of each summer's offerings.

## Winter Session

Between the Fall and Spring semesters, courses are offered, normally online, to provide students an opportunity to complete one course during the holiday break.

## Unit of Instruction/Credit Hour Policy

The semester credit hour is the unit of instruction at Creighton University.

One credit hour is constituted by a minimum of one hour of classroom or direct instruction plus a minimum of two hours of out-of-class student work each week for a semester (or its equivalent). Utilizing the Carnegie Unit, "one hour" of instruction or class work equals 50 minutes; a semester is defined as not less than 15 weeks.

An equivalent amount of student work (minimum three hours per week for a semester of combined direct instruction and out-of-class student work) must be represented for a credit hour in other academic activities such as laboratories, internships, practica, studio work and other academic work.

Contact the School or College Dean's Office or the Registrar for Creighton's full Credit Hour Policy.

## Course Levels and Numbering System

Undergraduate and Graduate level course numbering is as such:

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.

## Transfer and Other Credit

Credit by transfer or other means may count toward a student's Creighton degree; however these credits do not count toward a student's grade point average (GPA).

### Transfer Credit

#### *Transfer Students*

For students transferring to Creighton, evaluation will be done of transfer hours by the respective College after formal acceptance to Creighton. Courses must have grades of "C-" or better from regionally-accredited institutions to be considered for transfer credit. (See Admission of Transfer Students (p. 26)).

#### *Transient Study*

Creighton students may be permitted to enroll in courses at other regionally-accredited institutions. 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. Grades of "C-" or better must be earned. 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 College in which they are enrolled for additional transient study restrictions.

### Advanced Placement, CEEB Advanced Placement, Dual Credit, and International Baccalaureate

Incoming students may receive credit through one of these avenues. See the Admission section (p. 25) for complete 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.

### 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 cannot be declined but 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.

## **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/Readmission Policies**

### **Leave of Absence Program**

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.

### **Military Leave Policy**

Creighton University supports a student who is a member, or who parents a dependent child with a spouse who is a member, of a military reserve unit or the National Guard and is called into active military service by the United States. To assist him/her to maintain his/her status as Creighton student, the University has adopted guidelines (p. 10).

### **Readmission of Former Students**

Students previously enrolled who have been out of school for at least one full semester must make formal application for readmission. See full Readmission of Former Students (p. 29) policy.

## **Registration**

Registration for continuing students is conducted in April for the Summer Sessions and the Fall Semester and in November for the Spring Semester. Students meet with advisors, and receive specific appointment times for completing online registration.

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.

## Registration Changes (Drop/Add)

Changes in registration may be made through the established drop and add deadlines for each term. In fall and spring semesters, the add deadline is the fifth day of the semester; the drop deadline is the eighth day of the semester as long as the student remains full time (deadline is fifth day of semester, same as the add deadline, if student is going below full time). During summer or other shortened terms, the drop and add deadline is prorated accordingly.

## Withdrawal

**Withdrawal from a Course:** Students may dis-enroll from a course after the drop deadline but prior to the established withdrawal deadline of the term with permission of the dean's office. In fall and spring semesters, the withdrawal deadline is approximately the week after mid-semester grades are available. During summer or other shortened terms, the withdrawal deadline is prorated accordingly.

A non-punitive grade of "W" (Withdrawal) appears on the student's transcript.

Students desiring to dis-enroll from a course after the withdrawal deadline may only do so after petitioning and receiving approval from the Dean. If such a petition is not approved, a regular grade will be assigned by the instructor as per the course's grading policy.

**Withdrawal from the University:** Students who desire to dis-enroll from all courses after the drop deadline but prior to the withdrawal deadline (see above for deadline guidelines), must receive permission from the Dean of the School/College in which the student is registered. A student is considered enrolled until he or she has formally requested and received permission from the Dean to withdraw from the University.

Upon permission to withdraw from the University, non-punitive grades of "W" (Withdrawal) appear on the student's transcript.

Students who withdraw from school and plan to return within the following year may wish to consider the Leave of Absence Program (LOAP) (p. 103).

Students needing to withdraw due to military service will follow the Military Leave Policy (p. 10).

## 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.

## Student Status

### Full-Time Students

Undergraduate students who are enrolled in 12 or more semester credit hours during a semester are considered full-time students.

### Part-Time Students

Undergraduate students who are enrolled in fewer than 12 semester credit hours during a semester 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.

## Student Classification

Students in the College of Arts and Sciences, Heider College of Business, and College of Professional Studies are classified according to the total number of semester hours they have earned:

Freshmen—completed fewer than 24 credits

Sophomores—completed 24-59.5 credits.

Juniors—completed 60-95.5 credits

Seniors—completed 96 or more credits.

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

## 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.

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 cancel a class meeting, 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.

## 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 student’s first two academic years or until student is accepted into a major or a program. 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 An Introduction to the Culture of Collegiate Life – College of Arts and Sciences

RSP 102 An Introduction to the Culture of College Life - College of Nursing

RSP 103 An Introduction to the Culture of Collegiate Life – Heider College of Business

RSP 104 Introduction to the Culture of Collegiate Life – Honors Students in College of Arts and Sciences

RSP 105 Introduction to the Culture of Collegiate Life – Transfer Students (Arts and Sciences/ Business) with less than 38 credit hours

## Pass/No Pass Option

Beginning with their Sophomore year, students 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 in the Arts and Sciences 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 Heider College of Business 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.

## 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 “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 (p. 104).

## Final Examinations

Final examination activities are held in all courses at the close of each term (semester or summer session). The Registrar’s Office sets and publishes a schedule of exam times for the fall and spring semesters, which faculty and students must adhere.

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.

## Grades

Grading Systems:

	<b>Grade points for each credit hour</b>
A outstanding achievement and an unusual degree of intellectual initiative	4.0
B+ high level of intellectual achievement	3.5
B noteworthy level of performance	3.0
C+ performance beyond basic expectations of the course	2.5
C satisfactory work	2.0
D work of inferior quality, but passing	1.0
F failure--no credit	0.0
I work incomplete	0.0
AU audited course only--no credit	0.0

P	pass--credit	0.0
NP	not pass--no credit	0.0
SA	satisfactory work	0.0
UN	unsatisfactory work (failure)--no credit	0.0
W	official withdrawal from a course--no credit	0.0

Satisfactory/Unsatisfactory 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

An "I" (Incomplete) may be given to a student who has unable to fulfill all requirements of a course due to extenuating circumstances. The student may petition the instructor before the close of the term to assign an end-of-term grade of "I" indicating incomplete performance. The instructor may agree to this grade 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, which is set by the instructor, and should not exceed the maximum one year from the end of course time limit for clearing an Incomplete. Both the student and professor must endorse the form.

The responsibility for completing all course work rests with the student. After the deadline has passed, the student must re-register for and satisfactorily complete the course if credit is desired. Although 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.

If an Incomplete 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".

## Grade Point Average (GPA)

A grade point average (GPA) is based only on work taken at Creighton University 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.

## Grade Reports

Grades are made available to students each mid semester and at the end of each term via the student's N.E.S.T. account.

## 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 College of Nursing Handbook for that school's appeal procedure.

## Academic Standing

A cumulative GPA, computed only on the basis of all work attempted at Creighton, of at least 2.00 is required for graduation. Any student whose cumulative GPA 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 GPA of 2.00.

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 their grade point average (GPA).

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 GPA is not at least 1.75 at the end of the freshman year may be dropped for poor scholarship. In some cases if a 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.

## 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", 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.

## College of Business Dean's Honor Roll for Social Responsibility

The Heider College of Business 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 Heider College of Business' Honor Roll for Social Responsibility honors undergraduate students who take the opportunity to serve their community.

Full-time undergraduate students in the Heider College of Business 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 and students receive a certificate of Achievement.

## Graduation-Degree Application

Each student must file a formal application for degree (completed online through the N.E.S.T.) with the Registrar by the following deadlines:

Degree completion at end of Spring semester: February 15

Degree completion at end of Summer: March 15  
(or June 15 if not participating in Commencement ceremony)

Degree completion at end of Fall semester: October 15  
(or previous March 15 if participating in Commencement ceremony prior to degree completion)

Late applicants are charged a late fee.

Annual University Commencement ceremonies are held in May. Students who complete their degrees in the Spring Semester are expected to be present at Commencement to receive their degrees. Students who complete their degree programs in the Fall Semester may attend Commencement in May following completion or in the preceding May if approved by their Dean. Students who complete their degree requirements during the Summer are encouraged to attend Commencement the preceding May (if approved by their Dean) or may attend the May

Commencement following completion. Diplomas of August and December graduates will be mailed upon confirmation of the completion of all degree requirements by the respective Dean.

**NOTE: A student may participate in only one Commencement ceremony for each degree granted.**

The respective Deans of the Schools and Colleges of the University have the responsibility for approving candidates for graduation.

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.

## 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

## Confidentiality of Student Records

Creighton University's policy relating to the confidentiality and privacy 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 education 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, and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

**2. The right to request the amendment of the student's education records that the student believes is 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 education records, except to the extent that FERPA authorizes disclosures without consent.**

One exception that 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, and the National Student Clearinghouse); a person serving on the Board of Trustees; 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.

Generally, schools must have written permission from the student in order to release any information from a student's education record. However, FERPA allows schools to disclose those records, without consent, to the following parties or under the following conditions:

- School officials with legitimate educational interest
- Other schools to which a student is requesting transfer or enrollment
- Specified officials for audit or evaluation purposes
- Appropriate parties in connection with financial aid to a student
- Organizations conducting certain studies for or on behalf of the school
- Accrediting organizations
- To comply with a judicial order or lawfully issued subpoena
- Appropriate officials in cases of health and safety emergencies

FERPA permits disclosure of educational record information to a student's parent or guardian if the student is their dependent for federal tax purposes. To rely on the exception, the University must verify a student's dependent status by asking the student for confirmation or by asking the parent/guardian to provide a copy of the portion of their tax return showing they claimed the student as a dependent. Students may grant their parents or another third party access to their academic records by following the procedure on their N.E.S.T. account.

FERPA also allows the University to disclose directory information without the written consent of the student. Directory information is information contained in an education 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 on their N.E.S.T. account and requesting their information be hidden. Such submission 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  
 400 Maryland Avenue, SW

Washington, DC 20202

## **Location, Types, and Custody of Educational Records**

Following is a listing of the location and types of education records and the title of the respective official responsible:

### **Registrar's Office (Brandeis Hall 202)**

- Application for admission and supporting documents, including standardized test scores, transcripts of academic work completed elsewhere
- Cumulative academic records
- Academic action reports
- Correspondence, etc

### **School or College Dean's Office**

- Records will vary with Dean's office, but may include records and reports in original or copy form generally comparable to those maintained by Registrar
- Academic progress reports, evaluations and related actions
- Attendance data
- Correspondence, etc

### **Academic Advisor's Office**

- Cumulative files containing academic information are maintained by some academic departments and by some faculty advisors concerning their advisees

### **Athletic Department (Ryan Athletic Center)**

- Directory information
- Recruiting and eligibility records
- Performance statistics

### **Center for Health and Counseling (Harper Center, Room 1034)**

- Medical records
- Counseling records

### **Office of International Programs (Creighton Hall, Third Floor)**

- Records of international students
- Records of students who studied abroad

### **Residence Life Office (Swanson Hall 136)**

- Housing information

### **Student Financial Aid Office (Harper Center 2040)**

- Financial aid records

### **University Business Office (Creighton Hall 113)**

- Financial records, including those pertaining to tuition, fees, and student loans

**University Relations (Wareham Building, 3rd Floor)**

- Directory information and other personal data about former students and graduates, and their subsequent activities and achievements

**Vice Provost for Student Life (Creighton Hall 224)**

- Disciplinary records

**University Ministries (Creighton Hall, Room 110 )**

- Directory information
- Religious affiliation

Questions concerning the Student Records Policy may be referred to the University Registrar, who is designated as the University Custodian of Student Records.

## Transcripts

A copy of a student's academic record is called a transcript and is issued by the University Registrar upon signed request, or its equivalent, of the student. Transcript request information is available at the Registrar's Office or on the Registrar's website (<http://creighton.edu/registrar/transcripts>). Copies are not made of transcripts on file from other institutions; any additional copy of these must be requested by the student direct from the original issuing institution.

## 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. Elizabeth Elliot-Meisel, Director of Scholarships and Fellowships or consult Creighton's Scholarships website (<http://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. [cic.edu/Programs-and-Services/Programs/Pages/Davies-Jackson-Scholarship.aspx](http://www.cic.edu/Programs-and-Services/Programs/Pages/Davies-Jackson-Scholarship.aspx) (<http://www.cic.edu/Programs-and-Services/Programs/Pages/Davies-Jackson-Scholarship.aspx>).

*Fulbright Grants* allow scholars, professionals and artists to travel to other countries to research and study. [us.fulbrightonline.org](http://us.fulbrightonline.org) (<http://us.fulbrightonline.org>).

*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. [gatesscholar.org](http://gatesscholar.org) (<http://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. [act.org/goldwater](http://act.org/goldwater) (<http://act.org/goldwater>).

*The Clare Boothe Luce Foundation* provides support to women in the sciences, mathematics, and engineering. [creighton.edu/luce](http://creighton.edu/luce).

*The James Madison Foundation* sponsors fellowships to a select group of individuals desiring to become outstanding teachers of the American Constitution. [jamesmadison.com](http://jamesmadison.com) (<http://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. [marshallscholarship.org](http://marshallscholarship.org) (<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. [us-irelandalliance.org](http://us-irelandalliance.org) (<http://us-irelandalliance.org>).

*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. [nsf.gov](http://nsf.gov) (<http://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. [borenawards.org](http://borenawards.org) (<http://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." [rhodesscholar.org](http://rhodesscholar.org) (<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. [truman.gov](http://truman.gov) (<http://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. [udall.gov](http://udall.gov) (<http://udall.gov>).

# Undergraduate Curriculum and Degree Requirements

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## University Learning Outcomes

The University Assessment Committee has articulated six university-level outcomes (p. 5) that are common to all undergraduate, graduate, and professional student experience.

## Undergraduate Degree Requirements

Knowledge and completion of all degree requirements is the responsibility of the student. To assist, Creighton provides advisor assistance and on-line degree evaluations.

The following degree requirements are required for a bachelor's degree:

- Minimum of 128 semester credit hours
  - minimum of 48 semester credit hours earned at Creighton, including the final 32
  - minimum semester credit hours earned at Creighton in the major, as follows:
    - College of Arts and Sciences: minimum of 15
    - Heider College of Business: minimum of 15-18
    - College of Nursing: minimum of 20
    - College of Professional Studies: minimum of 15
  - Cumulative grade point average of 2.00
  - Completion of Magis Common Core Curriculum (see below) and applicable Magis College Core Curriculum (see below)
  - Completion of major requirements

## Magis Common Core Curriculum

*Note: The Magis Core Curriculum applies to students matriculating as an undergraduate degree-seeking student, Fall 2014 and after.*

The Magis Core Curriculum serves as the cornerstone of Creighton University education, laying a shared foundation for all undergraduate students in order to shape responsible citizens of the global community. In the Jesuit tradition, Magis is "the more", aspiring toward excellence. As Catholic, the Magis Core Curriculum provides a framework to challenge students to pursue truth in all forms through the living tradition of the Catholic Church. As Jesuit, the Magis Core Curriculum is deeply rooted in Ignatian values and the Jesuit intellectual tradition, engaging students through intimate learning communities in critical dialogue about the ultimate questions of life.

The components that constitute the Magis Core Curriculum are intentionally selected to provide a congruous liberal educational experience for all undergraduate students. Students across all colleges interact, challenge ideas, and gain a deeper appreciation for diverse perspectives and experiences, thus promoting a culture of inquiry and mutual respect. A variety of course delivery methods, including distance education, are designed to foster student engagement. The Magis Core Curriculum promotes students' ethical reasoning and critical thinking, and prepares students to respond to life's challenges with discerning intelligence and thoughtful reflection. Committed to

the inherent worth and dignity of each person, students gain an appreciation of ethnic and cultural diversity in all its forms, and develop a commitment to exploration of transcendent values and the promotion of justice.

The Magis Core Curriculum is organized into four levels, with various Components in each level. Each College may designate additional College Core Components. Students must complete the designated number of credits in each Common Core and College Core categories using approved courses. The most up-to-date list of approved courses is available on the NEST Schedule of Classes and Course Catalog.

<b>Foundations</b>	<b>Explorations</b>	<b>Integrations</b>	<b>Designated Courses (1 course each)</b>
Contemporary Composition (3 credits)	Understanding Natural Science (2 credits)	Intersections (3 credits)	Designated Ethics
Critical Issues in Human Inquiry (3 credits)	Understanding Social Science (3 credits)		Designated Oral Communications
Oral Communication (1 credit)	Global Perspectives in History (3 credits)		Designated Written Communication
Mathematical Reasoning (2 credits)	Literature (3 credits)		Designated Statistical Reasoning
Philosophical Ideas (3 credits)	Ethics (3 credits)		Designated Technology
The Christian Tradition (3 credits)	The Biblical Tradition (3 credits)		

## Foundations

The Foundations components are foundational in several ways. First, they insure that students have foundational skills in self-expression, that is, in writing and in speaking. Second, students are introduced to three domains of critical thinking that have, from the beginning of the Jesuit educational tradition, been seen as foundational: (a) thinking critically about human experience through the study of history and literature; (b) thinking critically about religion through the study of theology; and (c) thinking critically about thinking itself through the study of philosophy. The Foundations components should normally be completed within the first year of undergraduate study.

### Contemporary Composition (3 credits)

This component introduces students to the essentials of academic writing. While themed around specific topics (see examples below), all courses will present the theory and the practice of rhetoric and composition, teaching students how to construct well-organized and well-supported arguments. **PREREQUISITE:** None. Courses that fulfill the Contemporary Composition component include the following:

- ENG 150 Contemporary Composition:College Composition
- ENG 154 Contemporary Composition:Writing About Energy
- ENG 155 Contemporary Composition:Cortina Composition
- ENG 157 Contemporary Composition:Advocacy and Knowledge

## Critical Issues in Human Inquiry (3 credits)

This multi-disciplinary component of the first-year experience will introduce students to significant questions in humanistic scholarship through a high-impact educational experience. Critical Issues in Human Inquiry courses will emphasize critical and creative thinking, written and oral communication, and engagement with diversity and social justice. COREQUISITE: Oral Communication. Courses that fulfill the Critical Issues in Human Inquiry component include the following:

ARH 170 Cities and People:Urban Planning and Ethical Decisions  
 ARH 171 Art Crime  
 CNE 170 Love, Marriage and the Family in Classical Antiquity  
 CNE 171 War in Literature  
 CNE 172 Muhammad in Muslim Life and Thought  
 COM 170 Communication across Cultures  
 COM 171 Friendships and Our Changing Social World  
 COM 172 Princesses, Brides and Mothers  
 COM 173 Health, Communication, and Media  
 EDU 170 Diversity and Justice in Education  
 ENG 170 Literature in Life:Literature Engaging Life  
 ENG 171 Literature in Life:Literary Autobiography  
 ENG 172 Race and Identity  
 ENG 173 Anchors Aweigh! Transatlantic Travels in Literature  
 HIS 170 Liberation  
 HIS 171 Critical Issues in Human Inquiry:Waging Peace in the Twentieth Century  
 HIS 172 Globalization and Leadership in Africa  
 HIS 173 Colonial Legacies in Asia  
 HIS 174 Discovering Paradise  
 SPN 170 Musical Perspectives:Hearing the Hispanic World  
 SWK 261 Social Welfare Needs of Vulnerable Populations:Exploring Helping Role from Social Work Perspective  
 THL 175 The Human Induced Climate Crisis:Origins and Solutions

## Oral Communication (1 credit)

The Oral Communication component introduces the subject matter of how to give a speech and lays the foundation on which students can then build a speaking competency. Argument construction (and fallacies), speech organization, verbal and visual support, use of technology, delivery, audience analysis, topic selection, research, information literacy and *eloquentia perfecta* would all be covered. Students will deliver speeches in their Critical Issues in Human Inquiry course based on what they have learned in their Oral Communication course. COREQUISITE: Critical Issues in Human Inquiry course. Courses that fulfill the Oral Communication component include the following:

COM 101 Communicating Critical Issues

## Mathematical Reasoning (2 credits)

The Mathematical Reasoning component is (1) problem-based in that it explicitly discusses real-world applications of mathematics relevant to students in business, nursing, the humanities, social sciences, or natural sciences, depending on the intended audience; and (2) focuses on

communicating mathematically in myriad forms. PREREQUISITE: None. Courses that fulfill the Mathematical Reasoning component include the following:

MTH 141 Applied Calculus

MTH 205 Mathematics for the Modern World

MTH 245 Calculus I

## Philosophical Ideas (3 credits)

The Philosophical Ideas component explores philosophical ideas about the nature of reality, the scope of human knowledge, and the nature of a good human life through the study of primary philosophical texts. Students will study the theories and concepts that philosophers of the Western tradition have used to explore such ideas. The course will culminate in students' developing and defending their own answers to some of the philosophical questions explored in the course.

PREREQUISITE: None. Courses that satisfy the Philosophical Ideas component include the following:

PHL 110 Philosophical Ideas:Reality, Knowledge, and the Good Life

PHL 111 Philosophical Ideas:Law

PHL 112 Philosophical Ideas:Foundations of the Sciences

PHL 113 Philosophical Ideas:Nature, Time and God

PHL 118 Philosophical Ideas:Wisdom

## The Christian Tradition (3 credits)

The Christian Tradition component gives students a first taste of the lively, complex, and often tumultuous ways that Christians have, over the centuries, sought to bring critical reason to the understanding of their faith. It surveys the major teachings, history, practices, and personalities of the Christian tradition; it sets these out within a balanced account of the three principal traditions of contemporary Christianity (Orthodox, Catholic, Protestant). PREREQUISITE: None. Courses that satisfy The Christian Tradition component include the following:

THL 110 The Christian Tradition, Then and Now

THL 111 The Christian Tradition:Portraits of Christians Through the Centuries

THL 112 The Christian Tradition:Global Visions

THL 113 The Christian Tradition in Dialogue

# Explorations

The life of the mind requires exploring, and at this level, students are asked to begin exploring widely. The genius of the university is its wide-ranging and enormously sophisticated array of disciplines. In this phase of study, students begin to explore that array, its vast and varied approaches to the profound reaches of human knowledge. All students have certain intellectual strengths that feel natural to them. All too often, students can be reluctant to explore more widely, to move outside their comfort zones. This level of exploration will push students to discover new domains and to uncover their own often hidden capabilities. The Explorations components should normally be completed within the first three years of undergraduate study.

## **Ethics (3 credits)**

An essential first step toward helping students to become men and women for others in order to create a better, more just world is the critical study of various fundamental philosophical or theological theories about the nature and sources of moral obligation, moral virtue, justice, wisdom, and a good human life. The Ethics component involves both the study of fundamental moral theories and the use of those theories in complex practical situations. PREREQUISITE: Philosophical Ideas course. No courses that fulfill the Ethics component have yet been approved; course applications will begin to be reviewed and approved during 2014-2015.

## **Global Perspectives in History (3 credits)**

The Global Perspectives in History component will introduce students to the distinctive disciplinary methods of historical inquiry with the intention of guiding them toward the ability to explain how significant historical developments have shaped human societies and cultures. Global Perspectives in History courses will offer a broad view of the past that supports an examination of change and continuity over a significant period of time; link particular regions with larger chronological and geographical trends in history; and analyze a combination of relevant thematic concerns such as race, gender, nation, politics, and economy. PREREQUISITE: Critical Issues in Human Inquiry course. No courses that satisfy the Global Perspectives in History component have yet been approved; course applications will begin to be reviewed and approved during 2014-2015.

## **Literature (3 credits)**

Through an in-depth look at a specific period, form or theme in literature, the Literature component will examine how imaginative language represents and shapes the richness of what it means to be human. Attention will be paid to the transformative power of the human imagination and the role of the imagination in how we understand and explain our world. PREREQUISITE: Critical Issues in Human Inquiry course. Courses that have currently been approved to satisfy the Literature component include the following:

ENG 223 Studies in Native American Literature 3 credits

## **The Biblical Tradition (3 credits)**

The Biblical Tradition component introduces students to the Bible, the Old and New Testaments, through the discipline of Biblical Studies. It examines the central narratives of the Bible, but its unique emphasis is on introducing students to the sophisticated historical, social-contextual, and critical methodologies that shape any contemporary interpretation of the Bible. PREREQUISITE: The Christian Tradition course. No courses that satisfy The Biblical Tradition component have yet been approved; course applications will begin to be reviewed and approved during 2014-2015.

## **Understanding Natural Science (2 credits)**

The Understanding Natural Science component helps students to understand the nature of science, the strengths and limitations of the scientific approach, the differences between science and other ways of understanding the world, the key role of science in technological developments and *vice versa*, and the mutual influence of science and society on each other. PREREQUISITE: None. Courses that satisfy the Understanding Natural Science component include the following:

BIO 201 General Biology: Organismal and Population

CSC 121 Computers and Scientific Thinking

ERG 157 Contemporary Composition:Energy in Society (Co Req: ENG 154 Contemporary Composition:Writing About Energy)

ERG 213 Three Dimensional Design

ERG 221 Electronics Design (pending final approval)

NSC 111 Time's Arrow: The Evolving Universe

PHY 105 Frontiers in Astronomy

PHY 157 Sustainable Energy

PHY 187 Conceptual Physics

PHY 201 General Physics for the Life Sciences (Co Req:PHY 205 General Physics Laboratory I)

PHY 213 General Physics for the Physical Sciences I (Co Req: MTH 245 Calculus I and PHY 205 General Physics Laboratory I)

PHY 221 Advanced General Physics I:Modeling the Physical World (Co Req: MTH 249 Modeling the Physical World I)

## Understanding Social Science (3 credits)

The Understanding Social Science component introduces students to social science through courses that begin with an overview of what it means to "understand social science" as the study of society and human nature using theories and quantitative or qualitative analysis of data, and then present in detail fundamental concepts and theories from at least one social scientific discipline.

PREREQUISITE: None. Courses that satisfy the Understanding Social Science component include the following:

ANT 113 Introduction to Anthropology: Social and Cultural Determinants of Health

COM 211 Communication Studies:Relationships, Work, and Culture

PLS 101 Introduction to Politics

PLS 105 Introduction to World Politics

PLS 121 American Government And Politics/AMS 121 American Government And Politics

PSY 201 Introductory Psychology

SOC 101 Introduction to Sociology: Self and Society

SWK 275 Human Behavior and the Social Environment

## Integrations

As students approach completion of their undergraduate education, they need to begin to integrate what they have learned about themselves and their world. At this stage of undergraduate study, students' programs of study will have diverged into various specialized fields of study in the various colleges and schools of the university. Different forms of integrative study will be appropriate depending upon in which college the student is enrolled. Integrations components will normally be completed within the third and fourth years of undergraduate study.

## Intersections (3 credits)

The focus of the Intersections component will be on big questions that employ critical thinking skills to address issues of diversity, service, and social justice. Students and instructors will work at the intersection of intellectual inquiry and personal experience as they seek together to understand intersections in the world at large. In the best Ignatian tradition, these courses will involve research and writing as well as reflection, collaboration, and debate. PREREQUISITE: Critical Issues in Human

Inquiry course. No courses that satisfy the Intersections component have yet been approved; course applications will begin to be reviewed and approved during 2014-2015.

## **Designated Courses**

In addition to the components of the Magis Core Curriculum listed above, students must complete 5 designated courses, 1 in each of 5 different areas. It is expected that students will complete most of these designated courses as part of their major programs of study. The rest of these courses should be completed as part of another Explorations- or Integrations-level component of the Magis Core Curriculum.

### **Designated Ethics (0 additional credits)**

Courses that receive a designation in ethics will develop and integrate ethical thinking in a chosen academic discipline, profession, or sphere of responsibility. Each such course will involve at least one significant assignment that requires structured ethical reflection on some dimension of the student's current or future projects. PREREQUISITE: Ethics course. No Designated Ethics courses have yet been approved; course applications will begin to be reviewed and approved during 2014-2015.

### **Designated Oral Communication (0 additional credits)**

Designated Oral Communication courses will involve intensive instruction in at least one form of oral communication that is specifically intended for a particular audience. Each such course will involve at least one significant oral communication assignment. PREREQUISITE: Oral Communication course. No Designated Oral Communication courses have yet been approved; course applications will begin to be reviewed and approved during 2014-2015.

### **Designated Statistical Reasoning (0 additional credits)**

Designated Statistical Reasoning courses will involve intensive instruction and the application of statistical methods in solving problems within a discipline. Each such course will involve at least one significant assignment or project that utilizes statistics as an essential tool for analyzing data and drawing well-founded conclusions. The goal is to equip the student with the theory and methodology that are essential to solving problems in a data-rich world. PREREQUISITE: Mathematical Reasoning course. No Designated Statistical Reasoning courses have yet been approved; course applications will begin to be reviewed and approved during 2014-2015.

### **Designated Technology (0 additional credits)**

Designated Technology courses will involve intensive instruction and the application of technology in solving problems within a discipline. Each such course will involve at least one significant assignment or project that utilizes technology as an essential tool for information gathering, analysis, and presentation. Beyond the simple use of a search engine or word processing program, students will effectively use discipline-specific software tools, as appropriate, and reflect on the role of technology in that discipline. In conjunction, students will explore the power and limitations of technology in both professional and societal terms. PREREQUISITE: None. No Designated Technology courses have yet been approved; course applications will begin to be reviewed and approved during 2014-2015.

## **Designated Written Communication (0 additional credits)**

The goal of Designated Written Communication courses is to help students develop writing skills that are appropriate to a specific discipline, which will normally be the student's major field of study. Designated Written Communication courses must be upper-division courses that involve intensive instruction in at least one form of writing oriented toward a specific audience; at least one significant written assignment, on which the student receives substantial instructor feedback during the drafting and revision stages; and an introduction to the practice of sustained professional writing in a field and the best practices and conventions in that field. PREREQUISITE: Contemporary Composition course. No Designated Written Communication courses have yet been approved; course applications will begin to be reviewed and approved during 2014-2015.

# College of Arts and Sciences

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

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 **Magis CCAS 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.

## Degrees

The College of Arts and Sciences awards nine 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 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.)*

## 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.

## 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.

## Application to and Requirements of Majors

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 catalog. Application for major programs is online (<https://ccas.creighton.edu/current-students/student-resources/student-forms>).

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.

A 2.00 grade point average in the minimum requirements of the major (not including requisite/supporting courses) is required for graduation.

## Majors for Business and Nursing Students

Students in the College of Nursing and Heider College of Business may complete an additional major in the College of Arts and Sciences. The second major 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 College of Nursing and business students should contact the Dean of the Heider College of Business for advising and for referral for the application.

## Majors, Tracks and Specializations Offered in the College

Following is the list of majors in the College, by degree, together with the tracks and specializations that each allows.

### Bachelor of Arts (B.A.)

- American Studies (p. 146)
- Art History (p. 282)
- Classical Languages: Greek Track (p. 185)
- Classical Languages: Latin Track (p. 187)
- Classical and Near Eastern Civilizations (p. 188)
- Communication Studies (p. 199)
- Cultural Anthropology (p. 477)
- Economics (p. 203)
- English (p. 232)
  - American Literature Specialization
  - British Literature Specialization
  - Creative Writing Specialization
  - English Education Specialization
  - Rhetoric and Composition Specialization
- French and Francophone Studies (p. 386)
- German Studies (p. 387)
- Graphic Design & Media: Graphic Design Track (p. 343)
- Graphic Design & Media: Multi-Media & Photojournalism Track (p. 344)
- History (p. 318)
  - International Relations Specialization
- International Relations (p. 441)
- Journalism: Advertising Track (p. 345)
- Journalism: News Track (p. 346)
- Journalism: Public Relations Track (p. 346)
- Justice and Society (p. 353)

- Medical Anthropology (p. 479)
- Music (p. 284)
- Philosophy (p. 410)
  - Ethics Specialization (p. 411)
- Political Science: Legal Studies Track (p. 442)
- Political Science: Political Science Track (p. 443)
- Political Science: Public Policy Track (p. 445)
- Political Science: Research Design and Analysis Track (p. 446)
- Psychology (p. 455)
- Spanish and Hispanic Studies: Professional Track (p. 390)
- Spanish and Hispanic Studies: Literary Track (p. 388)
- Studio Art (p. 285)
- Sustainable Energy (p. 220)
- Theatre (p. 288)
- Theology (p. 500)
  - Biblical Studies Specialization
  - Doctrinal, Historical or Liturgical Theology Specialization
  - Christian Life Studies Specialization

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

- Studio Art (p. 290)
- Musical Theatre (p. 288)
- Theatre: Performance Track (p. 291)
- Theatre: Technical Track (p. 292)

## **Bachelor of Science (B.S.)**

- Applied Physical Analysis (p. 427)
- Biology (p. 159)
- Chemistry: Generalist Track (p. 172)
- Chemistry: Chemistry Education Track (p. 175)
- Computer Science and Informatics: Computing Science Track (p. 347)
- Computer Science and Informatics: Digital Development Track (p. 348)
- Elementary Education (p. 212)
- Exercise Science and Pre Health Professions (p. 255)
- Health Administration and Policy (p. 301)
- Mathematics (p. 361)
- Physics (p. 429)
- Sociology: Standard Sociology Track (p. 482)
- Sociology: Applied Research Methods Track (p. 480)
- Sociology: Criminal Justice Policy Track (p. 481)
- Sustainable Energy Science (p. 218)

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

- Chemistry Track (p. 178)
- Biochemistry Track (p. 176)

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

- Global and Environmental Systems Track (p. 246)
- Organismal/Population Ecology Track (p. 247)
- Environmental Policy and Society Track (p. 245)

## **Bachelor of Science in Mathematics (B.S. Mth.)**

- Pure Mathematics Track (p. 361)
- Medical Mathematics Track (p. 360)

## **Bachelor of Science in Physics (B.S. Phy.)**

- Physics (p. 426)

## **Bachelor of Social Work (B.S.W.)**

- Social Work (p. 483)

## **Structure of 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.

## **Declaration of and Requirements of Minors**

A student may not declare a minor until he or she has been accepted into a Major. Students declare minors with the Minor Declaration form online (<https://ccas.creighton.edu/current-students/student-resources/student-forms>).

Eighteen credits of coursework are required to complete a minor. Students must achieve a cumulative GPA of 2.00 in courses toward the minor.

## **Minors for Business and Nursing Students**

Students in the College of Nursing and Heider College of Business may complete a minor in the College of Arts and Sciences. Nursing students should contact the Associate Dean of Student Affairs in the College of Nursing and business students should contact the Dean of the Heider College of Business for advising and for referral for the application.

## Minors Offered

- African Studies (p. 138)
- American Studies (p. 148)
- Ancient Greek (p. 189)
- Ancient History (p. 190)
- Anthropology (p. 484)
- Applied Information Technology (p. 534)
- Applied Ethics (p. 504)
- Applied Ethics: Philosophical and Theological Approaches (p. 413)
- Applied Research Methods in Sociology and Anthropology (p. 484)
- Art History (p. 293)
- Asian Studies (p. 151)
- Atmospheric Sciences (p. 430)
- Behavioral and Cognitive Neuropsychology (p. 457)
- Biological Physics (p. 431)
- Biology (p. 161)
- Black Studies (p. 165)
- Bioscience Entrepreneurship (p. 556) (offered through the Heider College of Business)
- Business Administration (p. 528) (offered through the Heider College of Business)
- Classical and Near Eastern Civilizations (p. 191)
- Communication Studies (p. 199)
- Criminal Justice Policy (p. 485)
- Dance (p. 294)
- Economics (p. 203) (offered through the Heider College of Business)
- English (p. 236)
- Environmental Policy (p. 248)
- Environmental Science (p. 249)
- European Studies (p. 320)
- Film Studies (p. 236)
- French and Francophone Studies (p. 392)
- German Studies (p. 393)
- Health Administration and Policy (p. 303)
- History (p. 321)
- History and Philosophy of Science (p. 413)
- International Relations (p. 447)
- Italian (p. 394)
- Justice and Peace Studies (p. 350)
- Latin (p. 191)
- Legal Studies (p. 448)
- Mathematics (p. 362)

- Mathematical Logic (p. 362)
- Medical Anthropology (p. 486)
- Military Science (p. 363)
- Music (p. 295)
- Native American Studies (p. 399)
- Political Science (p. 448)
- Philosophy (p. 414)
- Physics (p. 431)
- Public Health (p. 303)
- Public Policy (p. 449)
- Sociology (p. 486)
- Social Entrepreneurship (p. 557) (offered through the Heider College of Business)
- Sustainable Energy (p. 221)
- Spanish and Hispanic Studies (p. 395)
- Studio Art (p. 296)
- Theology (p. 505)
- Theatre (p. 296)
- Women's and Gender Studies (p. 509)

## **Degree Requirements**

The Creighton College of Arts and Sciences requires each student to select a program of courses that combines three elements: The Magis Common and CCAS Core Curricula, an Academic Major, and Electives (which may include an academic minor and/or or second major).

More specifically, a bachelor's degree requires:

- a minimum of 128 credit hours<sup>1</sup>, including at least 48 credit hours in courses numbered 300 or above
- a minimum of 48 credit hours must be completed at Creighton University, with 32 of the final 48 completed in residence at Creighton
- 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 Magis Common Core Curriculum and the Magis CCAS Core Curriculum
- completion of at least one major in one of the departments or interdisciplinary programs of the College
- a GPA of at least 2.00 in the minimum requirements of the major (not including requisite/supporting courses)

- <sup>1</sup> 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 grade point average and requires the written approval of the Dean. Additional tuition may be charged. To reach the minimum 128 hours in four years, a student must average successful completion of 16 credits per semester.

## Magis Common Core Curriculum

The most up-to-date list of approved courses is available on the NEST Schedule of Classes and Course Catalog.

Foundations	Explorations	Integrations	Designated Courses (1 course each)
Contemporary Composition (3 credits)	Understanding Natural Science (2 credits)	Intersections (3 credits)	Designated Ethics
Critical Issues in Human Inquiry (3 credits)	Understanding Social Science (3 credits)		Designated Oral Communications
Oral Communication (1 credit)	Global Perspectives in History (3 credits)		Designated Written Communication
Mathematical Reasoning (2 credits)	Literature (3 credits)		Designated Statistical Reasoning
Philosophical Ideas (3 credits)	Ethics (3 credits)		Designated Technology
The Christian Tradition (3 credits)	The Biblical Tradition (3 credits)		

## Magis College of Arts & Sciences Core Curriculum

Foundations	Explorations	Integrations	Designated Courses (1 course each)
	Fine Arts (3 credits)	Doing Natural Science (4 credits)	
	Foreign Language	Doing Social Sciences (3 credits)	
		Ultimate Questions (3 credits)	

### Explorations

## Fine Arts (3 credits) – Required of Arts & Sciences students only

The Fine Arts component will provide students with the opportunity to engage in the arts through creative processes as well as through formal study and to explore non-linear modes of thinking, problem-solving, and expression. PREREQUISITE: None. Courses that satisfy the Fine Arts component include the following:

ARH 210 History of Western Art and Architecture I  
ARH 211 History of Western Art and Architecture II  
ART 105 Art Fundamentals (pending final approval)  
ART 153 Three Dimensional Foundations I  
ART 155 Welded Metal Sculpture I  
ART 156 Bronze Casting Sculpture I  
ART 247 Introduction to Printmaking (pending final approval)  
ART 271 Photo Studio I: Beginning Black and White Photography  
DAN 101 Introduction to the Dance  
DAN 221 Intermediate Modern Dance  
DAN 231 Intermediate Tap/Jazz  
DAN 241 Intermediate Ballet  
ENG 130 Creative Writing (pending final approval)  
MUS 212 University Chorus I  
MUS 218 Symphonic Band I  
MUS 220 University Orchestra I  
MUS 271 Voice Class/THR 271 Voice Class  
MUS 313 Chamber Choir  
THR 131 Acting I  
THR 154 Costume Construction  
THR 161 Theatre Appreciation  
THR 215 Makeup Design

## **Foreign Language (4 credits) – Required of Arts & Sciences students only**

The Foreign Language component may be satisfied by the demonstration of basic competence in a modern or ancient language. Students of modern languages are introduced to the essential elements of basic communication in the four language skills (speaking, listening, reading and writing). Students of ancient languages focus on reading skills while writing, speaking, and listening skills are developed to a much smaller degree. PREREQUISITE: None. Courses that satisfy the Foreign Language component include the following:

ARA 112 Beginning Arabic for Daily Life II  
CHN 112 Beginning Chinese for Daily Life II  
FRN 112 Beginning French for Daily Life II  
GER 112 Beginning German for Daily Life II  
GRK 112 Beginning Greek II  
ITA 112 Beginning Italian for Daily Life II  
JPN 112 Beginning Japanese for Daily Life II  
LAT 112 Beginning Latin II  
RUS 112 Beginning Russian for Daily Life II  
SPN 112 Beginning Spanish for Daily Life II

## Integrations

### **Doing Natural Science (4 credits) – Required of Arts & Sciences students only**

This component consists of a three-credit lecture course including fundamental concepts and methods of a particular scientific field, with a co-requisite one-credit laboratory in which students have an experience of scientific investigation and communication. PREREQUISITE: Understanding Natural Science course. Courses that have currently been approved to satisfy the Doing Natural Science component include the following:

PHY 107 Introductory Astronomy

### **Doing Social Science (3 credits) – Required of Arts & Sciences students only**

The Doing Social Science component is designed to further students' knowledge of society and human nature within a social scientific discipline. Students will apply their knowledge of social scientific methods (quantitative or qualitative) in order to interpret social science data as related to specific social science questions and to critique social scientific studies. PREREQUISITE: Understanding Social Science course. No courses that fulfill the Doing Social Science component have yet been approved; course applications will begin to be reviewed and approved during 2014-2015.

### **Ultimate Questions (3 credits) – Required of Arts & Sciences students only**

This component explores ultimate questions about some of the deepest and most mysterious dimensions of human experience: e.g., the existence and nature of God, the nature and ultimate destiny of the human person, the nature of the cosmos and humanity's place within it, the search for salvation and the pursuit of holiness, the nature of religion and religious experience. No Jesuit education is complete without such a sustained grappling with these ultimate realities. PREREQUISITES: Philosophical Ideas course, The Christian Tradition course, and The Biblical Tradition course. No courses that satisfy the Ultimate Questions component have yet been approved; course applications will begin to be reviewed and approved during 2014-2015.

## **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.

If interested in any of these programs please contact AFROTC Detachment 470, University of Nebraska at Omaha, 402.554.2318, to obtain further information.

## Courses

### **AES 001. Leadership Laboratory. 0 credits. FA, SP**

AES 001 - Leadership Laboratory (LLAB) courses include a study of Air Force customs and courtesies, drill and ceremonies, and military command. The LLAB also includes studying the environment of an Air Force officer and learning about areas of opportunity available to commissioned officers. During the junior and senior year, 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 written communications. LLABs also include interview, guidance and information that will increase the understanding, motivation, and performance of other cadets. Note: This course is offered in partnership with the University of Nebraska-Omaha.

### **AES 131. Foundations Of The United States Air Force I. 1 credit.**

The Foundations of USAF I: Survey course 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 opportunities, and an introduction to communications skills. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences. Note: This course is offered in partnership with the University of Nebraska-Omaha.

### **AES 132. Foundations Of The United States Air Force II. 1 credit.**

The Foundations of USAF II: Survey course 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 opportunities, and an introduction to communications skills. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences. Note: This course is offered in partnership with the University of Nebraska-Omaha.

### **AES 231. The Evolution Of USAF Air And Space Power I. 1 credit.**

The Evolution of USAF Air and Space Power I: A course designed to examine general aspects of air power from a historical perspective. The course covers the period from the first balloons and dirigibles to the space-age systems of the Global War on Terror. Historical examples are provided to show the development of Air Force core functions to demonstrate the evolution of what has become today's USAF. Furthermore, the course examines several fundamental truths associated with war in the third dimension, e.g., principles of war and tenets of air power. As a whole, this course provides the students with a knowledge-level understanding for the general employment of air power, from an institutional, doctrinal, and historical perspective. In addition, what the students learned about the Air Force Core Values in AS100 will be reinforced through the use of operational examples, and they will complete several writing and briefing assignments to meet Air Force communication skills requirements. Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences. Note: This course is offered in partnership with the University of Nebraska-Omaha.

**AES 232. The Evolution Of USAF Air And Space Power II. 1 credit.**

The Evolution of USAF Air and Space Power II: A course designed to examine general aspects of air power from a historical perspective. The course covers the period from the first balloons and dirigibles to the space-age systems of the Global War on Terror. Historical examples are provided to show the development of Air Force core functions to demonstrate the evolution of what has become today's USAF. Furthermore, the course examines several fundamental truths associated with war in the third dimension, e.g., principles of war and tenets of air power. As a whole, this course provides the students with a knowledge-level understanding for the general employment of air power, from an institutional, doctrinal, and historical perspective. In addition, what the students learned about the Air Force Core Values in AS100 will be reinforced through the use of operational examples, and they will complete several writing and briefing assignments to meet Air Force communication skills requirements. Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences. Note: This course is offered in partnership with the University of Nebraska-Omaha.

**AES 311. Air Force Leadership Studies I. 3 credits.**

Air Force Leadership Studies I: The 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 leadership and management principles of this course. Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences. Note: This course is offered in partnership with the University of Nebraska-Omaha.

**AES 312. Air Force Leadership Studies II. 3 credits.**

Air Force Leadership Studies I: The 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 leadership and management principles of this course. Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences. Note: This course is offered in partnership with the University of Nebraska-Omaha.

**AES 411. National Security Affairs/Preparation For Active Duty I. 3 credits.**

National Security Affairs/Preparation for Active Duty I: This course examines the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest focus on the military as a profession, officer ship, 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. Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences. Note: This course is offered in partnership with the University of Nebraska-Omaha.

**AES 412. National Security Affairs/Preparation For Active Duty II. 3 credits.**

National Security Affairs/Preparation for Active Duty I: This course examines the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest focus on the military as a profession, officer ship, 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. Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences. Note: This course is offered in partnership with the University of Nebraska-Omaha.

## African Studies

[www.creighton.edu/ccas/africanstudies/](http://www.creighton.edu/ccas/africanstudies/)

Program Director: Baba G. Jallow

Program Office: Humanities Center, Room 220

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.

## Minors in African Studies

- African Studies Minor (p. 138)

## Courses

### **AFS 106. The African World. 3 credits. FA, SP (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 credits. FA (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 credits. ONLY, SP (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 credits. ONLY (Same as ANT 342, BKS 342)**

An exploration of the people and places of Africa south of the Sahara from a variety of anthropological perspectives. It is an introduction to the cultures of Africa and a history of how those cultures have been perceived and interpreted. P: So. stdg.

**AFS 347. Peoples and Cultures of Africa and the Middle East. 3 credits. 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 credits. 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 credits. 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 credits. (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 credits. SP (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 credits. OD**

Seminars offered on special topics related to African Studies. May be repeated under different subtitles.

**AFS 405. Ethnicity, Nationalism and Democracy. 3 credits. AY (Same as PLS 405)**

Recent history has brought a "wave" of democratization, along with intensifying ethnic awareness, nationalism and (at times) conflict. What are the major interpretations of the courses and prospects for these phenomena? How do ethnicity and nationalism affect democracy, human rights and the international system? Can multi-nation states such as Russia survive as democracies? How? This course considers trends in major regions and uses several case studies: Russia, Israel/Palestine, Nigeria, South Africa, India, and others. P: So. stdg.

**AFS 411. Politics of Africa. 3 credits. AY, FA (Same as BKS 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.

**AFS 470. Seminar In Film Studies: Africa And African American. 3 credits. (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 credits. SP (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 credits. SP (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 486. Women and Gender in Africa. 3 credits.**

A study of the roles and representations of women and gender as conceptual and analytical categories in African history and society. P: So. Stdg.

**AFS 487. History of West Africa. 3 credits. 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 credits. 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. 1-3 credits. 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 credits. OD**

Individualized program of reading in an area of special interest under the direction of a faculty member. P: AFS coordinator consent.

**AFS 589. The Rwanda Genocide as a Challenge for the Church. 3 credits.**

Exploration of the 1994 Rwanda Genocide in historical, theological, and political contexts with particular focus on roles played by majority Catholic Church. P: THL 100.

## African Studies Minor

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.

### Minor in African Studies Requirements: 18 credits

AFS 342	Peoples And Cultures Of Sub-Saharan Africa	3
AFS 390	Introduction To African Literature	3
AFS 411	Politics of Africa	3
Select one of the following:		3
AFS 388	Origins of Modern Africa	
AFS 484	Nationalist Movements in Colonial Africa	
AFS 487	History of West Africa	
AFS 489	Southern Africa: The Politics Of Race	
Six additional credits from any 300- or 400-level AFS courses		6
Total Credits		18

# American Studies

Program Director: Heather E. Fryer

Program Office: Humanities Center, Room 227

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.

## Major 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 (p. 146)

## Minor in American Studies

- American Studies (p. 148)

## 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.

## Courses

### **AMS 102. Introduction to Sociology: Social Problems. 3 credits. FA (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 credits. FA, SP, SU (Same as PLS 121)**

A course that provides a critical overview of American political institutions, processes, and policies. It shows how these institutions and processes are shaped by the Constitution, historical events and elections as well as by politicians, the media, interest groups, and public opinion.

### **AMS 301. Social and Cultural Theory. 3 credits. FA, SP (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 credits. (Same as HIS 307, ENG 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 credits. (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 credits. ENY, SP (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 credits. FA, SP (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. Qualitative Methods In The Social Sciences. 3 credits. SP (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 credits. 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 credits. FA (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 credits. 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. Special attention given to Nebraska and Iowa state politics. P: So. stdg.

**AMS 327. Minority Politics in America. 3 credits. OD (Same as PLS 327)**

Explores the political experience of American racial and ethnic minorities with particular attention to the experience of black Americans. Includes review of roots and patterns of unequal treatment of minorities, tactics and strategies used to attack these patterns, and contemporary situation. Particular attention will be paid to the tension between integrationist and self-determination strategies. P: So. stdg.

**AMS 328. Mass Media In American Politics. 3 credits. AY (Same as PLS 328)**

Examination of the inter-relationships among the media, the mass public and government. The role of the media as a channel between citizens and government is considered both in political campaign settings and in day-to-day government. P: So. stdg.

**AMS 329. American Literature/American Identity. 3 credits. SP (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 credits. ONY, SP (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 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.

**AMS 335. Federal Indian Policy And Law. 3 credits. SP (Same as NAS 335, PLS 335, SWK 335)**

This course investigates the relationships between Native Americans and the Euro-American in terms of how the Natives were perceived and the impact this has had on Colonial and Federal policies relating to Native populations. The course's 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 credits. 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 credits. FA (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. This course will be graded on a SA/UN basis.

**AMS 341. American Cultural Minorities. 3 credits. FA (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 credits. ENY, FA (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 credits. OD (Same as ANT 345)**

A look at 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 credits. SP (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 credits. 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 credits. SP (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 North American Religions. 3 credits. ONLY, SP (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 credits. 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 credits. SP (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 credits. FA, SU (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 credits. 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 credits. 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 credits. AY, SP (Same as BKS 372, HIS 372, PLS 372)**

Incorporates continuing discourses between a historian and a political scientist. Exploration of the 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 credits. SP (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. Survey of American Art. 3 credits. 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 credits. (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 credits. OD (Same as ENG 389)**

Representative American authors and works from the 1920's. P: Jr. stdg.

**AMS 391. Film Music. 3 credits. (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 of 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 credits. SP (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.

**AMS 395. Selected Topics. 3 credits. 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 credits. 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 credits.**

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, 318.

**AMS 411. Social Inequality and Stratification. 3 credits. ONY, SP (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 credits. (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 credits. FA, OD (Same as PLS 432)**

Major themes and thinkers on the role of government and the nature of a democratic political culture. Using both historical and contemporary materials, the course explores issues such as popular control, public participation, local autonomy, individualism, political liberty, and variations in American political ideology. P: Jr. stdg.

**AMS 437. Religion And Public Life In The United States. 3 credits. OD (Same as PLS 437)**

This course transcends the designation "church and state" because it considers the non-institutional behavior of religious individuals in groups, and their impact on our public life far beyond that of government. P: So. stdg.

**AMS 449. American Colonies. 3 credits. 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 credits. 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 credits. 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 credits. FA, SP (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 credits. FA (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 States. Includes Northwest, Southwest, and Plains cultures.

**AMS 470. Introduction to Geographic Information Systems. 4 credits.**

An introduction to the design, development, and application of geographic information systems (GIS) and related technologies to conduct spatial analysis in applied research settings that require the integration of data from diverse sources. Students will complete individual projects focusing on a topical area of their choice in order to develop an understanding of the basic technologies, and to demonstrate their skill in using these technologies to analyze a research topic. Research topics may be drawn from any subject field for which data sets with geographic variables are available. These may include anthropology, criminal justice, demography, economics, environmental science, health care, marketing, political science, sociology and social work. P: SOC 212 or IC.

**AMS 471. Discourse of the American Family. 3 credits. (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 examines the discourse, myths, problems/limitations, and power with how family has been culturally constructed.

**AMS 482. Race In America: Idea And Reality. 3 credits. OD (Same as BKS 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.

**AMS 491. Senior Seminar. 3 credits. SP**

A research seminar required of all American Studies majors and co-majors. P: Sr. AMS major.

**AMS 493. Directed Independent Readings. 1-3 credits. 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. 1-3 credits. 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. Introduction to Geographic Information Systems. 4 credits. ENY, SP (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.

**AMS 585. American Studies Internship. 1-3 credits. FA, SP, SU**

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.

## B.A., Major in American Studies

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

AMS 307	Introduction to American Studies	3
AMS 308	Theories and Methods in American Studies	3
AMS 491	Senior Seminar	3
Select two courses from three of the following groups:		18
American Fine and Performing Arts		
AMS 353	Jazz in American Culture	
AMS 384	History Of American Architecture	
AMS 385	Survey of American Art	
AMS 387	Modern Hispanic Art History	
AMS 467	History Of The Art of Spain And Her Colonies	
AMS 468	Native American Art	
ARH 386	The History and Aesthetics of Latin American Photography	
THR 461	American Theater History	
American History		
AMS 460	The History Of Women In The United States	
AMS 482	Race In America: Idea And Reality	
HIS 108	The Native American World	
HIS 311	United States History To 1877	
HIS 312	United States History Since 1877	
HIS 355	Constitutional History of the United States Since 1877	
HIS 357	Religion In American Society To 1865	
HIS 358	Religion In American Society From 1865 To The Present	
HIS 367	The African-American Experience	
HIS 372	Equality, Minorities, And Public Policy	
HIS 375	The United States And Latin America	
HIS 384	Black History Through Literature	
HIS 449	American Colonies	
HIS 450	Revolutionary America	
HIS 451	The Early American Republic	
HIS 452	Civil War and Reconstruction	
HIS 458	The Sixties	
HIS 565	The United States And Canada: The Siamese Twins Of North America	
American Literatures		
AMS 312	Mass Media And Modern Culture	
AMS 329	American Literature/American Identity	
AMS 350	American Literature I: Beginnings To Civil War	

AMS 393	African-American Literature
ENG 351	American Literature II: 1860-1914
ENG 352	English And American Literature: 1914 To The Present
ENG 353	Introduction to Native American Literature
ENG 371	American Literature: Vision And Reality
ENG 381	Literature and the Environment
ENG 389	The Roaring Twenties
ENG 405	The Thirties
ENG 469	Modern American Poetry
ENG 470	Seminar in Film Studies
ENG 471	Modern American Drama
ENG 473	19th-Century American Novel
ENG 474	Modern American Novel
ENG 475	Contemporary American Literature
American Philosophy	
AMS 317	Philosophy of Sport
AMS 367	American Philosophy
AMS 465	American Pragmatism
PHL 348	Philosophy of Feminism
American Politics	
AMS 121	American Government And Politics
AMS 325	American States And Regions
AMS 327	Minority Politics in America
AMS 328	Mass Media In American Politics
AMS 335	Federal Indian Policy And Law
AMS 339	Public Policy And Poverty In The United States
AMS 372	Equality, Minorities, And Public Policy
AMS 432	Democratic Theory
AMS 437	Religion And Public Life In The United States
PLS 322	American Presidency
PLS 438	Contemporary Issues In Civil Liberties
American Society and Culture	
AMS 102	Introduction to Sociology: Social Problems
AMS 301	Social and Cultural Theory
AMS 310	Religion And Contemporary American Society
AMS 316	Qualitative Methods In The Social Sciences
AMS 318	Gender in American Society
AMS 331	Indians of the Great Plains
AMS 340	Native American Cultures and Health
AMS 341	American Cultural Minorities
AMS 343	Peoples and Cultures of Native North America

AMS 345	Sport in American Culture	
AMS 355	Environment and Society: Sociological Perspectives	
AMS 358	Critical Issues in the Study of North American Religions	
AMS 360	Gender, Society and Culture	
AMS 365	Issues Of The Native American Experience	
AMS 411	Social Inequality and Stratification	
Inquiries in American Studies		
AMS 395	Selected Topics	
AMS 400	Topical Seminar in American Studies	
AMS 493	Directed Independent Readings	
AMS 497	Directed Independent Research	
AMS 585	American Studies Internship	
Select one additional course from any of the above groups		3
Total Credits		30

## American Studies Minor

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.

### Minor in American Studies Requirements: 18 Credits

AMS 307	Introduction to American Studies	3
AMS 308	Theories and Methods in American Studies	3
Select two courses from two of the following groups:		12
American Fine and Performing Arts		
AMS 353	Jazz in American Culture	
AMS 384	History Of American Architecture	
AMS 385	Survey of American Art	
AMS 387	Modern Hispanic Art History	
AMS 467	History Of The Art of Spain And Her Colonies	
AMS 468	Native American Art	
ARH 386	The History and Aesthetics of Latin American Photography	
THR 461	American Theater History	
American History		
AMS 460	The History Of Women In The United States	
AMS 482	Race In America: Idea And Reality	
HIS 108	The Native American World	
HIS 311	United States History To 1877	
HIS 312	United States History Since 1877	
HIS 355	Constitutional History of the United States Since 1877	
HIS 357	Religion In American Society To 1865	

HIS 358	Religion In American Society From 1865 To The Present
HIS 367	The African-American Experience
HIS 372	Equality, Minorities, And Public Policy
HIS 375	The United States And Latin America
HIS 384	Black History Through Literature
HIS 449	American Colonies
HIS 450	Revolutionary America
HIS 451	The Early American Republic
HIS 452	Civil War and Reconstruction
HIS 458	The Sixties
HIS 565	The United States And Canada: The Siamese Twins Of North America
American Literatures	
AMS 312	Mass Media And Modern Culture
AMS 329	American Literature/American Identity
AMS 350	American Literature I: Beginnings To Civil War
AMS 393	African-American Literature
ENG 351	American Literature II: 1860-1914
ENG 352	English And American Literature: 1914 To The Present
ENG 353	Introduction to Native American Literature
ENG 371	American Literature: Vision And Reality
ENG 381	Literature and the Environment
ENG 389	The Roaring Twenties
ENG 405	The Thirties
ENG 469	Modern American Poetry
ENG 470	Seminar in Film Studies
ENG 471	Modern American Drama
ENG 473	19th-Century American Novel
ENG 474	Modern American Novel
ENG 475	Contemporary American Literature
American Philosophy	
AMS 317	Philosophy of Sport
AMS 367	American Philosophy
AMS 465	American Pragmatism
PHL 348	Philosophy of Feminism
American Politics	
AMS 121	American Government And Politics
AMS 325	American States And Regions
AMS 327	Minority Politics in America
AMS 328	Mass Media In American Politics
AMS 335	Federal Indian Policy And Law
AMS 339	Public Policy And Poverty In The United States

AMS 372	Equality, Minorities, And Public Policy
AMS 432	Democratic Theory
AMS 437	Religion And Public Life In The United States
PLS 322	American Presidency
PLS 438	Contemporary Issues In Civil Liberties
American Society and Culture	
AMS 102	Introduction to Sociology: Social Problems
AMS 301	Social and Cultural Theory
AMS 310	Religion And Contemporary American Society
AMS 316	Qualitative Methods In The Social Sciences
AMS 318	Gender in American Society
AMS 331	Indians of the Great Plains
AMS 340	Native American Cultures and Health
AMS 341	American Cultural Minorities
AMS 343	Peoples and Cultures of Native North America
AMS 345	Sport in American Culture
AMS 355	Environment and Society: Sociological Perspectives
AMS 358	Critical Issues in the Study of North American Religions
AMS 360	Gender, Society and Culture
AMS 365	Issues Of The Native American Experience
AMS 411	Social Inequality and Stratification
Inquiries in American Studies	
AMS 395	Selected Topics
AMS 400	Topical Seminar in American Studies
AMS 493	Directed Independent Readings
AMS 497	Directed Independent Research
AMS 585	American Studies Internship

Total Credits

18

## Asian Studies

Program Directors: Jinmei Yuan, Associate Professor of Philosophy; Maorong Jiang, Director of Asian World Center

Asian World Center Office: Becker Hall Suite G25

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.

### Minor in Asian Studies

- Asian Studies (p. 151)

## Courses

### ASN 300. Introduction to Asian Studies. 3 credits.

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.

### ASN 412. Studies in Major Authors. 3 credits.

Cross-listed with ENG 412 when study appropriately relates to Asian Studies.P: ENG 120, ENG 121, ENG 150 or equivalent; Jr. stdg. or IC.

## Asian Studies Minor

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.

### Minor in Asian Studies Requirements: 18 Credits

ASN 300	Introduction to Asian Studies	3
Select one of the following:		3
PHL 351	Introduction To Chinese Philosophy	
PHL 353	Introduction to Buddhism	
Select one of the following:		3
HIS 103	The Asian World	
HIS 467	Modern China	
HIS 468	Modern Japan	
Select one of the following:		3
PLS 315	Politics of Asia	
PLS 316	Government and Politics of People's Republic of China	
<b>Electives</b>		
Select two of the following:		6
CHN 101	Beginning Chinese I	
CHN 102	Beginning Chinese II	
HIS 464	Gender and Sexuality in Asia	
HIS 465	Japanese Popular Culture	
HIS 466	Narratives of East Asian Tradition	
HIS 467	Modern China	
HIS 468	Modern Japan	
JPN 101	Beginning Japanese I	
JPN 102	Beginning Japanese II	
JPN 225	Intermediate Japanese	
PHL 351	Introduction To Chinese Philosophy	
PHL 353	Introduction to Buddhism	

PLS 315	Politics of Asia	
PLS 316	Government and Politics of People's Republic of China	
SRP 434	Philosophy of East Asian Literature and Film	
Total Credits		18

## Biology

Chair: Mark Reedy

Associate Chair: Alistair Cullum

Department Office: Hixson-Lied Science Building, Room 448

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.

### Major in Biology

#### Specific Requirements for Admission to the Biology Major

Completion of BIO 201 and 202 with a grade of "C" or better in each, OR completion of one 300-level or higher Biology course at Creighton with a grade of "C" or better.

- B.S., Major in Biology (p. 159)

### Minor in Biology

- Biology (p. 161)

### 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 Conceptual Physics and either ATS 113 Introduction To Atmospheric Sciences and ATS 114 Introduction To Atmospheric Sciences Laboratory, EVS 443 Environmental Geology or and PHY 109 Introductory Astronomy and PHY 110 Astronomy Laboratory should be substituted for PHY 201 General Physics for the Life Sciences and PHY 202 General Physics for the Life Sciences II as supporting courses.

### Courses

#### **BIO 141. Charles Darwin: Life And Impact. 3 credits. AY, FA**

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 credits. SP**

Survey course designed for nonmajors who have only a high school background in the sciences. Covers the major areas of human structure, function, nutrition and genetics. Examination of both the normal condition and examples of disorders in this condition. Discussion of related topics of current interest. This course may not be taken for credit toward the Biology major. 3R.

**BIO 150. Biotechnology and Society. 3 credits. AY, SP**

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 201. General Biology: Organismal and Population. 3 credits. SP, SU**

Organismal and population biology with emphasis on organismal diversity, structural and functional strategies of organisms, ecological and behavioral relationships, and evolutionary mechanisms. The diversity of adaptive specialization based on the fundamental unity of life is the theme of the course.

**BIO 202. General Biology: Cellular and Molecular. 3 credits. FA, SU**

Introduces the conceptual bases of biology and presents the molecular and cellular aspects of metabolism, genetics, and other selected systems. P: One year of college or high school chemistry of sufficient depth and rigor to enable the student to participate in the study of the molecular aspects of biology.

**BIO 205. General Biology: Organismal and Population Lab. 1 credit. FA**

Laboratory portion of BIO 201. P or C: BIO 201.

**BIO 206. General Biology: Cellular and Molecular. 1 credit. FA**

Laboratory portion of BIO 202. P or C: BIO 202.

**BIO 297. Directed Research. 2 credits.**

An introduction to laboratory or field methods intended to prepare students for independent research. This course may not be repeated; research students should enroll in BIO 397 or BIO 497 in subsequent semesters. (No more than 12 semester hours of credit may be accrued in any combination of BIO 297, BIO 397, BIO 493, BIO 495, and BIO 497.) Graded Satisfactory/Unsatisfactory. P: IC.

**BIO 317. Genetics. 3 credits. FA, SP, SU**

Science of heredity and variation. Basic principles of Mendelian genetics, cytogenetics, molecular genetics, human genetics and evolution are examined. 3R. P: BIO 201, BIO 202, BIO 205, and BIO 206. P or CO: CHM 205 or CHM 285.

**BIO 318. Genetics Laboratory. 1 credit. SP**

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 credits. FA, SU**

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 467. 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 201/BIO 205 and BIO 202/BIO 206.

**BIO 335. Zoology. 4 credits. SP (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 201/BIO 205 and BIO 202/BIO 206.

**BIO 341. Botany. 4 credits. SP (Same as EVS 341)**

Modern biological concepts and principles exemplified by the plant kingdom with emphasis on plant diversity, anatomy, physiology, and evolution. 3R, 3L. P: BIO 201/BIO 205 and BIO 202/BIO 206.

**BIO 351. Microbiology. 4 credits. FA (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 201/BIO 205 and BIO 202/BIO 206.

**BIO 362. Cell Structure and Function. 3 credits. FA, SP, SU**

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 202/BIO 206.

**BIO 385. The Ecology, Geography and Health of Lakes. 4 credits. AY, SU (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 201/BIO 205 and BIO 202/BIO 206 and IC.

**BIO 390. Environmental Science. 3 credits. SP (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 201/BIO 205 and BIO 202/BIO 206 or CHM 205/CHM 206 (or CHM 285/CHM 286).

**BIO 397. Directed Independent Research (Extramural). 3 credits.**

A program of independent study emphasizing laboratory or field research, intended for students working with mentors not part of the Biology faculty. (No more than 12 semester hours of credit may be accrued in any combination of BIO 297, BIO 397, BIO 493, BIO 495, and BIO 497.) Graded Satisfactory/Unsatisfactory. P: IC.

**BIO 401. Biostatistics. 4 credits. SP, SU (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 201/BIO 205 and BIO 202/BIO 206.

**BIO 419. Molecular Genetics Laboratory. 2 credits. SP**

Laboratory activities using contemporary methods of genomic inquiry. Emphasis on fundamental aspects of gene structure and function. 3L. P: BIO 317 or IC.

**BIO 425. Development of Biological Thought. 3 credits. SU**

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 201/ BIO 205 and BIO 202/BIO 206.

**BIO 432. Immunology. 3 credits. FA**

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 201/BIO 205 and BIO 202/BIO 206 and one of the following BIO 317 or BIO 362.

**BIO 435. Coastal and Estuarine Ecology. 4 credits. AY, SU (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 credits. FA, SP**

A study of the functions of animals from the cellular to the organ-systems level with emphasis on vertebrate systems physiology. 3R. P: BIO 201/BIO 205 and BIO 202/BIO 206; Jr. stdg.

**BIO 450. Animal Physiology Laboratory. 1 credit. FA**

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 credits. SP**

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 201/BIO 205 and BIO 202/BIO 206.

**BIO 481. Terrestrial Ecology. 4 credits. FA (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 201/BIO 205 and BIO 202/BIO 206.

**BIO 483. Vertebrate Natural History Lecture. 3 credits. SP (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 201/BIO 205 and BIO 202/BIO 206.

**BIO 484. Vertebrate Natural History Laboratory. 1 credit. OD, SP, SU (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 credits. FA (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 201/BIO 205 and BIO 202/BIO 206.

**BIO 486. Freshwater Ecology Laboratory. 2 credits. FA (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 201/BIO 205 and BIO 202/BIO 206. P or CO: BIO 485 or IC.

**BIO 487. Marine Ecology Laboratory. 2 credits. SP (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 201/BIO 205 and BIO 202/BIO 206; CO: BIO 485 or IC.

**BIO 490. Seminar In Undergraduate Biology Instruction. 1 credit.**

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 492. Seminar in Undergraduate Classroom Instruction. 1 credit.**

Required of all undergraduate Teaching Assistants supporting lecture-based courses in those semesters they teach. Course provides instruction in course content and its effective communication, fair and constructive grading techniques, and management of course records. Specific duties will vary depending on the requirements for specific courses. P: IC.

**BIO 493. Directed Independent Readings. 1-3 credits. FA, SP, SU**

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 297, BIO 397, BIO 493, BIO 495, and BIO 497. P: IC.

**BIO 495. Directed Independent Study. 1-3 credits. FA, SP, SU**

A program of independent study with emphasis on activities other than laboratory or field research. (Examples include library research or special course attendance). Course is only an addition to and not a substitution for any portion of the major requirement. 2-4 C and/or L. No more than 12 semester hours of credit may be accrued in any combination of BIO 297, BIO 397, BIO 493, BIO 495, and BIO 497. P: IC.

**BIO 497. Directed Independent Research. 3 credits. FA, SP, SU**

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 297, BIO 397, BIO 493, BIO 495, and BIO 497. P: IC.

**BIO 501. Bioinformatics: Genomics Approach. 4 credits.**

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 publically available or hand-coded by students. P: BIO 317 or IC.

**BIO 517. Current Topics in Genetics. 3 credits. FA, SP**

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 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 credits. AY, FA**

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 credits. AY, SP (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 201/BIO 205 and BIO 202/BIO 206.

**BIO 532. Current Topics in Cellular and Molecular Biology. 3 credits. SP**

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 the following courses: BIO 317, BIO 351, BIO 362, BMS 521, CHM 371, CHM 381 or IC.

**BIO 539. Ecology of Zoonotic Diseases. 3 credits. FA (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. P: BIO 201/205 and 202/206 and one of the following: BIO 351, BIO 390, BIO 432, BIO 481.

**BIO 541. Advanced Topics in Plant Biology. 3 credits. (Same as EVS 541)**

This course focuses on historical and current questions in plant biology. Students will explore the evolution, function, and development of plants from the genetic, cellular, and organismal perspective. Specific topics may include organogenesis, cell differentiation and expansion, hormone function, plant responses to stimuli, and the evolution of plant tissues and organs. P: BIO 201, BIO 202, BIO 205, and either BIO 341, BIO 317, or IC.

**BIO 545. Plant Diversity and Evolution. 4 credits. ((Same as EVS 545))**

An investigation of the diversity, morphology, and evolution of fossil and living plants. Topics emphasized include the origin of land plants, plant life cycles, evolution of the vascular cylinder, leaf, seed and flower, and the origin of flowering plants. P: BIO 201, BIO 202, BIO 205, and one of BIO 341, BIO 362, BIO 581 or IC.

**BIO 549. Environmental Physiology. 3 credits. AY, FA (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 BIO 335 or BIO 483 or BIO 449.

**BIO 551. Current Topics in Microbiology. 3 credits. SP**

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. 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 credits. FA**

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 credits. AY, FA (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 201/BIO 205 and BIO 202/BIO 206.

**BIO 562. Neurobiology. 3 credits. FA**

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 201/BIO 205 and BIO 202/BIO 206 and either BIO 333 or BIO 449.

**BIO 563. Neurobiology Laboratory. 2 credits. FA**

Introduction to neurobiological and behavioral research methods using experimental techniques to understand functional aspects of neurophysiology and the neural basis of behavior. 3L. P or CO: BIO 562.

**BIO 567. Cellular And Developmental Neuroscience. 3 credits.**

This lecture/discussion course will provide an introduction to processes regulating the development and function of the central nervous system. Attention will be given to how classic research studies have led to the modern understanding of the formation, functioning, and repair of the central nervous system. Current questions and research techniques in neuroscience will be investigated and assessed through the discussion of primary literature. 3R. P: BIO 01,202,205, and 206 and one of the following: BIO 333, 449, 467, 562.

**BIO 571. Animal Behavior. 3 credits. FA, SU (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 201/BIO 205 and BIO 202/BIO 206.

**BIO 572. Animal Behavior Laboratory. 2 credits. SP (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 credits. SP (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 BIO 481 or BIO 485.

**BIO 581. Evolution. 4 credits. FA (Same as EVS 581)**

Lectures and discussion designed to provide junior and senior students with a broad understanding of the science of evolutionary biology. Organized in three parts, each takes a chronological approach: (A) evolutionary theory, (B) mechanisms of evolution, (C) the implications and consequences of theory and mechanism; and as part of both the lecture and laboratory experience in (C, above) topics in evolutionary medicine will be covered. Laboratory sessions include computer modeling exercises to illustrate the mechanisms of evolutionary changes, an excellent film series, discussion opportunities designed to explore in more depth questions and topics associated with speciation, biodiversity and human evolution as well as a review session prior to each exam. 3R, 3L. P: One upper-division BIO course or Jr. stdg.

## B.S., Major in Biology

### B. S., Major in Biology Requirements: 33 Credits

BIO 202 & BIO 206	General Biology: Cellular and Molecular and General Biology: Cellular and Molecular	4
BIO 201 & BIO 205	General Biology: Organismal and Population and General Biology: Organismal and Population Lab	4
Twenty-five additional upper-division BIO credits from the list below:		25

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)
BIO 318	Genetics Laboratory (Lab)
BIO 333	Vertebrate Comparative Anatomy (Lab, Org)
BIO 335	Zoology (Lab, Org)
BIO 341	Botany (Lab, Org)
BIO 351	Microbiology (Lab, Cell)
BIO 362	Cell Structure and Function (Cell)
BIO 385	The Ecology, Geography and Health of Lakes (Lab, Pop)
BIO 390	Environmental Science (Pop)
BIO 401	Biostatistics (Lab)
BIO 419	Molecular Genetics Laboratory (Lab)
BIO 432	Immunology (Cell)
BIO 435	Coastal and Estuarine Ecology (Lab, Pop)
BIO 449	Animal Physiology (Org)
BIO 450	Animal Physiology Laboratory (Lab)
BIO 467	Developmental Biology (Lab, Org)
BIO 481	Terrestrial Ecology (Lab, Pop)
BIO 483	Vertebrate Natural History Lecture (Pop)
BIO 484	Vertebrate Natural History Laboratory (Lab)
BIO 485	Marine And Freshwater Ecology (Pop)
BIO 486	Freshwater Ecology Laboratory (Lab)
BIO 487	Marine Ecology Laboratory (Lab)
BIO 501	Bioinformatics: Genomics Approach (Lab, Cell)
BIO 517	Current Topics in Genetics (Cell)
BIO 520	Cytogenetics (Lab, Cell)
BIO 523	Environmental Toxicology (Pop)
BIO 532	Current Topics in Cellular and Molecular Biology (Cell)
BIO 539	Ecology of Zoonotic Diseases (Pop)
BIO 541	Advanced Topics in Plant Biology (Org)
BIO 549	Environmental Physiology (Org)
BIO 551	Current Topics in Microbiology (Cell)
BIO 559	Special Topics in Physiology (Org)

BIO 561	Entomology (Lab, Cell)	
BIO 562	Neurobiology (Cell, Org)	
BIO 563	Neurobiology Laboratory (Lab)	
BIO 567	Cellular And Developmental Neuroscience (Cell)	
BIO 571	Animal Behavior (Org)	
BIO 572	Animal Behavior Laboratory (Lab)	
BIO 580	Current Topics in Ecology (Pop)	
BIO 581	Evolution (Lab, Pop)	
Total Credits		33

BIO 297 Directed Research, BIO 397 Directed Independent Research (Extramural), BIO 492 Seminar in Undergraduate Classroom Instruction, BIO 493 Directed Independent Readings, BIO 495 Directed Independent Study and BIO 497 Directed Independent Research do not apply toward the major requirements. BIO 490 Seminar In Undergraduate Biology Instruction 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 Biochemistry of Metabolism or BMS 521 Principles of Biochemistry) may be approved for non-laboratory biology major credit; a student may exercise this option for only one such course.

## Requisite Courses

At least twenty-four credits in the following courses: CHM 203 General Chemistry I, CHM 204 General Chemistry I Laboratory, CHM 205 General Chemistry II (or CHM 285 Advanced General Chemistry II), CHM 206 General Chemistry II Laboratory (or CHM 286 Chemistry and Statistical Analysis Laboratory), CHM 321 Organic Chemistry I, CHM 322 Organic Chemistry I Laboratory, CHM 323 Organic Chemistry II, CHM 324 Organic Chemistry II Laboratory; General Physics I (201 or 211 or 213); PHY 205 General Physics Laboratory I; General Physics II (202 or 212); PHY 206 General Physics Laboratory II.

## Biology Minor

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 subdisciplinary areas of biology.

## Minor in Biology Requirements: 18 credits

BIO 202 & BIO 206	General Biology: Cellular and Molecular and General Biology: Cellular and Molecular	4
BIO 201 & BIO 205	General Biology: Organismal and Population and General Biology: Organismal and Population Lab	4
Ten additional credits in BIO courses numbered 300 and above.		10
Total Credits		18

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 297 Directed Research, BIO 397 Directed Independent Research (Extramural), BIO 492 Seminar in Undergraduate Classroom Instruction, BIO 493 Directed Independent Readings, BIO 495 Directed Independent Study, and BIO 497 Directed Independent Research cannot be applied towards this minor.

## Black Studies

Program Director: Ngwarsungu Chiwengo

Program Office: Creighton Hall, Room 130 B

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.

## Black Studies Minor

- Black Studies (p. 165)

### Courses

**BKS 106. The African World. 3 credits. FA, SP (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 credits. FA (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 credits. FA (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 credits. AY (Same as AFS 342, ANT 342)**

An exploration of the people and places of Africa south of the Sahara from a variety of anthropological perspectives. It is an introduction to the cultures of Africa and a history of how those cultures have been perceived and interpreted. P: So. stdg.

**BKS 347. Peoples and Cultures of Africa and the Middle East. 3 credits. 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 credits. OD (Same as AMS 353, MUS 353)**

Examines the relationship between American society and the development of jazz in the course of the twentieth century and beyond. Special attention will be given to those cultural, economic, and political factors which could influence jazz trends on a regional or national level.

**BKS 356. Christianity in Africa. 3 credits. 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 credits. 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 credits. AY, SP (Same as AMS 372, HIS 372, PLS 372)**

Incorporates continuing discourses between a historian and a political scientist. Exploration of the 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 credits. 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 credits. 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 credits. 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, ENG 121, ENG 150.

**BKS 393. African-American Literature. 3 credits. SP (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, ENG 121, ENG 150.

**BKS 396. Seminar in Black Studies. 3 credits. 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 credits. (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, ENG 121, ENG 150.

**BKS 411. Politics of Africa. 3 credits. AY, FA (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 credits. FA, SP (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 credits. (Same as AES 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 credits. 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 credits. SP (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 credits. SP (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 486. Women and Gender in Africa. 3 credits.**

A study of the roles and representations of women and gender as conceptual and analytical categories in African history and society. P: So. Stdg.

**BKS 487. History of West Africa. 3 credits. 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 credits. 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. 1-3 credits. 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 credits. OD**

Independent research course. P: IC.

**BKS 589. The Rwanda Genocide as a Challenge for the Church. 3 credits.**

Exploration of the 1994 Rwanda Genocide in historical, theological, and political contexts with particular focus on roles played by majority Catholic Church. P: THL 100.

# Black Studies Minor

## Black Studies Minor

The Black Studies minor offers students the opportunity to examine developments and ideas in African diaspora and Africa from an interdisciplinary and multidisciplinary perspective. As such, it provides opportunities to and Africa explore social, political, intellectual and artistic currents in the Americas, Africa, and Europe with relevance to Blacks and Africans of the diaspora as well as their arts, culture, and literature.

### Minor in Black Studies Requirements: 18 Credits

#### History/Political Science

Select one of the following:	3
BKS 106	The African World
BKS 367	The African-American Experience
BKS 372	Equality, Minorities, and Public Policy
BKS 384	Black History Through Literature
BKS 388	Origins of Modern Africa
BKS 411	Politics of Africa
BKS 482	Race In America: Idea And Reality
BKS 484	Nationalist Movements In Colonial Africa
BKS 485	Society And Belief Systems In Africa
BKS 487	History of West Africa
BKS 489	Southern Africa: The Politics Of Race

#### Anthropology/Sociology/Psychology

Select one of the following:	3
BKS 309	The Urban Social System
BKS 341	American Cultural Minorities

#### Liturature/Fine Arts

Select one of the following:	3
ARH 319	Art International: The Art Culture of the Global Community
BKS 390	Introduction To African Literature
BKS 393	African-American Literature
BKS 398	Literature Of Francophone Africa
MUS 353	Jazz in American Culture

Nine additional credits of any BKS course	9
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Total Credits	18
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## Chemistry

Chair: David A. Dobberpuhl

Associate Chair: Michael Miller

Department Office: Hixson-Lied Science Building, Room 268

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 interested in teaching high school chemistry.

## Majors 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 Calculus II. Computer literacy is expected of students majoring in Chemistry. MTH 245 Calculus I and MTH 246 Calculus II are prerequisites for all courses beyond organic chemistry. General Physics I (PHY 201 or PHY 211) is pre-requisite to CHM 341 Physical Chemistry I; General Physics II (PHY 202 or PHY 212) is co-requisite to CHM 341 Physical Chemistry I. (Note that the CHM 532/CHM 341/CHM 342 sequence typically taken in the junior year is being phased out and will be replaced starting Fall 2016 with CHM 341/CHM 342/CHM 343.)

- B.S., Major in Chemistry: Generalist Track (p. 172)
- B.S., Major in Chemistry: Chemistry Education Track (p. 175)
- B.S. Chem., Chemistry Track (Professional Degree) (p. 178)
- B.S. Chem, Biochemistry Track (Professional Degree) (p. 176)

## Courses

### **CHM 105. Introductory Chemistry. 3 credits. SP, SU**

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 credits. FA**

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. P: Registration in Nursing Program or IC.

### **CHM 112. Fundamentals Of Biological Chemistry. 3 credits. SP**

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 with a grade of "C" or better and Registration in Nursing Program or IC.

### **CHM 113. Fundamentals Of Chemistry Laboratory. 1 credit. SP**

Laboratory course to be taken in conjunction with CHM 112 which demonstrates basic chemical tools and illustrates basic chemical principles. P: CHM 111 or equivalent with a grade of "C" or better and Registration in Nursing Program; CO: CHM 112.

**CHM 201. Chemistry of Consumer Products. 3 credits.**

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 credits. FA, SU**

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: ACT Math of 24 or SAT Math 560 or MTH 245 with a grade of C or better or So. stdg. CO: CHM 204.

**CHM 204. General Chemistry I Laboratory. 1 credit. FA, SU**

Laboratory portion of Chemistry 203. Experiments relevant to the content of CHM 203 are performed. CO: CHM 203.

**CHM 205. General Chemistry II. 3 credits. SP, SU**

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 II Laboratory. 1 credit. SP, SU**

Laboratory portion of Chemistry 205. Experiments relevant to the content of CHM 205 are performed. P: CHM 203 and CHM 204 with grades of "C" or better; CO: CHM 205.

**CHM 285. Advanced General Chemistry II. 3 credits. SP**

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. Chemistry and Statistical Analysis Laboratory. 2 credits. SP**

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. 2 credits. FA, SP, SU**

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 and Statistical Analysis. 4 credits. SP**

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 credits. FA, SU**

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 I Laboratory. 1 credit. FA, SU**

Fundamental techniques of experimental organic chemistry. Isolation, purification, and organic synthetic methods. P: CHM 205 and CHM 206 or CHM 285 and CHM 286 with grades of "C" or better; CO: CHM 321.

**CHM 323. Organic Chemistry II. 3 credits. SP, SU**

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 II Laboratory. 1 credit. SP, SU**

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 321 and CHM 322 with grades of "C" or better; CO: CHM 323.

**CHM 341. Physical Chemistry I. 3 credits. SP**

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 201 or PHY 211, and CHM 532; P or CO: PHY 202 or PHY 212 or PHY 222; CO: CHM 342.

**CHM 342. Physical Chemistry Laboratory. 2 credits. SP**

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 343. Physical Chemistry II. 3 credits. SP**

An introduction to chemical applications of quantum mechanics including the particle-in-a-box, the harmonic oscillator, the rigid rotor, the hydrogen atom, and approximate methods for atoms and molecules. An introduction to spectroscopy including selection rules, rotational, vibrational, rovibrational, and electronic spectra, and lasers. The additional mathematics required will also be covered. P: CHM 341; P or CO: PHY 212; CO: CHM 342.

**CHM 351. Descriptive Inorganic Chemistry. 2 credits. SP**

A systematic study of the main-group elements with an emphasis on chemical reactions, properties, and processes important to the natural world. Lecture topics will be integrated with laboratory experiments to provide a broad introduction to descriptive inorganic chemistry and its key concepts. P: CHM 205 and CHM 206 or CHM 285 and CHM 286.

**CHM 371. Biochemistry of Metabolism. 3 credits. FA, SP**

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 202, CHM 323.

**CHM 381. Biochemistry. 3 credits. FA**

A mechanistic approach to biochemistry for chemistry and biochemistry majors. Topics include structural approaches to biomolecule function, mechanistic investigations of intermediary metabolism, biogenic synthesis of nucleotides and proteins, and applications of bioenergetics. P: CHM 323; Open to chemistry/biochemistry majors or IC.

**CHM 382. Biochemistry Laboratory. 2 credits. FA, SP**

A one-semester laboratory course designed to support CHM 381, Fundamentals of Biochemistry. Introduction to methods and instrumentation for biochemical measurements: analysis and isolation of biologically-important compounds, strategies for assaying biological activity, cloning and purification techniques for DNA/RNA. P or CO: CHM 371 or CHM 381, IC.

**CHM 392. Forensic Chemistry. 3 credits.**

A one semester laboratory course designed to investigate topics in forensic biochemistry, this class will focus on the processing techniques for: biological, chemical, drug, hair, and other evidentiary items found in crime scenes; as well as the instruments used in processing; FTIR, GCMS, and Bioanalyzer. P: CHM 371 or 381.

**CHM 421. Selected Topics In Organic Chemistry. 3 credits. 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 credits. 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 credits. 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 448. Group Theory. 2 credits. 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 credits. FA**

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 credits. FA**

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 credits. FA**

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 492. Industrial Internship. 1-3 credits. FA, SP**

Each student will spend one day per week or its equivalent in an industrial plant or laboratory. Registration must be preceded by the student submitting a resume, a letter of application, and arranging for a personal interview with one or more industrial concerns prior to the registration date. Each student must be accepted by or have worked for an industrial employer prior to registration. P: CHM 315 or CHM 285, and CHM 286.

**CHM 493. Directed Independent Readings. 1-3 credits. FA, SP, SU**

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 credits. FA, SP, SU**

P: CHM 341.

**CHM 496. Directed Independent Research I. 2 credits. FA, SP, SU**

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 credits. FA, SP, SU**

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. 2 credits.**

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 credits. SP**

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 515. Green Chemistry Laboratory. 2 credits.**

Green chemistry is a set of ideals that considers human beings and the environment when designing a chemical reaction, experiment, or process. This laboratory-based course implements the twelve principles of green chemistry to various areas of chemistry. The experiments focus on pollution prevention, energy minimization, and safety. A one-hour recitation where theories are presented and discussed accompanies the laboratory.

**CHM 521. Advanced Organic Chemistry: Synthetic Organic Methods. 3 credits. 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 credits. 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 credits. 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 526. Practical Spectroscopy: NMR. 1 credit.**

A practical course of NMR operation and experiment design. NMR probe tuning, shimming, determination of 90 degree pulses and relaxation times, advanced 1D and basic 2D experiments will be described and practiced. P: IC.

**CHM 527. Polymer Chemistry. 3 credits. 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 credit.**

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 credits. FA**

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 credits. 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 credits. 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 credits. 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 548. Chemical Applications of Spectroscopy. 2 credits.**

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 credits.**

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 556. Electrochemical Methods. 3 credits.**

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 credits. 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 credits.**

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.

## B.S. Chemistry: Generalist Track

### B.S., Major in Chemistry: Generalist Track Requirements: 30 Credits

**\*\*\*For Students Matriculated Prior to Fall 2014:**

CHM 315	Quantitative and Statistical Analysis <sup>1</sup>	4
CHM 321	Organic Chemistry I	3
CHM 322	Organic Chemistry I Laboratory	1
CHM 323	Organic Chemistry II	3
CHM 324	Organic Chemistry II Laboratory	1
CHM 341	Physical Chemistry I	3
CHM 342	Physical Chemistry Laboratory	2
CHM 456	Instrumental Analysis	3
CHM 466	Instrumental Analysis Laboratory	2
Select one of the following:		3-6
CHM 532	Mathematical Concepts In Chemistry	
MTH 545 & MTH 529	Differential Equations and Linear Algebra	

**Select three credit hours from the following list:** 3

CHM 381	Biochemistry	
CHM 421	Selected Topics In Organic Chemistry	
CHM 445	Chemical Thermodynamics	
CHM 446	Statistical Mechanics	
CHM 448	Group Theory	
CHM 451	Inorganic Chemistry I	
CHM 502	Inorganic Chemistry II	
CHM 521	Advanced Organic Chemistry: Synthetic Organic Methods	
CHM 523	Bioorganic Chemistry	
CHM 525	Organic Spectroscopic Analysis	
CHM 527	Polymer Chemistry	
CHM 543	Selected Topics In Physical Chemistry	
CHM 544	Quantum Chemistry	
CHM 545	Advanced Kinetics	
CHM 556	Electrochemical Methods	
CHM 575	Nucleic Acid Biochemistry	
CHM 576	Protein Biochemistry	
<b>Select two credit hours from the following list:</b>		<b>2</b>
CHM 351	Descriptive Inorganic Chemistry	
CHM 382	Biochemistry Laboratory	
CHM 515	Green Chemistry Laboratory	
CHM 528	Polymer Chemistry Laboratory	
CHM 548	Chemical Applications of Spectroscopy	
CHM 549	Computational Chemistry	

Total Credits

30-33

- <sup>1</sup> Waived for students who have completed CHM 285 Advanced General Chemistry II/CHM 286 Chemistry and Statistical Analysis Laboratory.

## Requisite Courses

MTH 245 Calculus I and MTH 246 Calculus II are prerequisites for all chemistry courses beyond CHM 324 Organic Chemistry II Laboratory. General Physics I (PHY 211) and General Physics II (PHY 212) are prerequisites to CHM 341 Physical Chemistry I.

**\*\*\*For Students Matriculating Fall 2014 and after:**

CHM 315	Quantitative and Statistical Analysis <sup>1</sup>	4
CHM 321	Organic Chemistry I	3
CHM 322	Organic Chemistry I Laboratory	1
CHM 323	Organic Chemistry II	3
CHM 324	Organic Chemistry II Laboratory	1
CHM 341	Physical Chemistry I	3

CHM 342	Physical Chemistry Laboratory	2
CHM 343	Physical Chemistry II	3
CHM 456	Instrumental Analysis	3
CHM 466	Instrumental Analysis Laboratory	2

**Select three credit hours from the following list:** 3

CHM 381	Biochemistry	
CHM 421	Selected Topics In Organic Chemistry	
CHM 445	Chemical Thermodynamics	
CHM 446	Statistical Mechanics	
CHM 448	Group Theory	
CHM 451	Inorganic Chemistry I	
CHM 502	Inorganic Chemistry II	
CHM 521	Advanced Organic Chemistry: Synthetic Organic Methods	
CHM 523	Bioorganic Chemistry	
CHM 525	Organic Spectroscopic Analysis	
CHM 527	Polymer Chemistry	
CHM 543	Selected Topics In Physical Chemistry	
CHM 544	Quantum Chemistry	
CHM 545	Advanced Kinetics	
CHM 556	Electrochemical Methods	
CHM 575	Nucleic Acid Biochemistry	
CHM 576	Protein Biochemistry	

**Select two credit hours from the following list:** 2

CHM 351	Descriptive Inorganic Chemistry	
CHM 382	Biochemistry Laboratory	
CHM 392	Forensic Chemistry	
CHM 496 & CHM 497	Directed Independent Research I and Directed Independent Research II	
CHM 515	Green Chemistry Laboratory	
CHM 528	Polymer Chemistry Laboratory	
CHM 548	Chemical Applications of Spectroscopy	
CHM 549	Computational Chemistry	

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Total Credits 30

<sup>1</sup> Waived for students who have completed CHM 285 Advanced General Chemistry II/CHM 286 Chemistry and Statistical Analysis Laboratory.

## Requisite Courses

MTH 245 Calculus I and MTH 246 Calculus II are prerequisites for all chemistry courses beyond CHM 324 Organic Chemistry II Laboratory. General Physics I (PHY 201) and General Physics II (PHY 202) are prerequisites to CHM 341 Physical Chemistry I.

## B.S., Chemistry: Chemistry Education Track

### B.S., Major in Chemistry: Chemistry Education Track Requirements: 23 Credits

**\*\*\*For Students Matriculated Prior to Fall 2014:**

CHM 315	Quantitative and Statistical Analysis <sup>1</sup>	4
CHM 321	Organic Chemistry I	3
CHM 322	Organic Chemistry I Laboratory	1
CHM 323	Organic Chemistry II	3
CHM 324	Organic Chemistry II Laboratory	1
CHM 341	Physical Chemistry I	3
CHM 342	Physical Chemistry Laboratory	2
CHM 381	Biochemistry	3
Select one of the following:		3-6
CHM 532	Mathematical Concepts In Chemistry	
MTH 545 & MTH 529	Differential Equations and Linear Algebra	
Total Credits		23-26

<sup>1</sup> Waived for students who have completed CHM 285 Advanced General Chemistry II/CHM 286 Chemistry and Statistical Analysis Laboratory

### Additional Required Courses and Prerequisite Courses

MTH 245 Calculus I and MTH 246 Calculus II are prerequisites for all chemistry courses beyond CHM 324 Organic Chemistry II Laboratory. General Physics I (PHY 211) and General Physics II (PHY 212) are pre-requisites to CHM 341 Physical Chemistry I.

BIO 202 General Biology: Cellular and Molecular/BIO 206 General Biology: Cellular and Molecular, ATS 113 Introduction To Atmospheric Sciences/EVS 113 Introduction To Atmospheric Sciences and ATS 114 Introduction To Atmospheric Sciences Laboratory/EVS 114 Introduction To Atmospheric Sciences Laboratory or ATS 443 Environmental Geology/EVS 443 Environmental Geology 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.

**\*\*\*For Students Matriculating Fall 2014 and after:**

CHM 315	Quantitative and Statistical Analysis <sup>1</sup>	4
CHM 321	Organic Chemistry I	3
CHM 322	Organic Chemistry I Laboratory	1
CHM 323	Organic Chemistry II	3
CHM 324	Organic Chemistry II Laboratory	1
CHM 341	Physical Chemistry I	3
CHM 342	Physical Chemistry Laboratory	2

CHM 343	Physical Chemistry II	3
CHM 381	Biochemistry	3
Total Credits		23

- <sup>1</sup> Waived for students who have completed CHM 285 Advanced General Chemistry II/CHM 286 Chemistry and Statistical Analysis Laboratory

## Additional Required Courses and Requisite Courses

MTH 245 Calculus I and MTH 246 Calculus II are prerequisites for all chemistry courses beyond CHM 324 Organic Chemistry II Laboratory. General Physics I (PHY 201) and General Physics II (PHY 202) are pre-requisites to CHM 341 Physical Chemistry I.

BIO 202 General Biology: Cellular and Molecular/BIO 206 General Biology: Cellular and Molecular, ATS 113 Introduction To Atmospheric Sciences/EVS 113 Introduction To Atmospheric Sciences and ATS 114 Introduction To Atmospheric Sciences Laboratory/EVS 114 Introduction To Atmospheric Sciences Laboratory or ATS 443 Environmental Geology/EVS 443 Environmental Geology are required and students must complete the requirements for a secondary endorsement. Please consult the Education Department for the most recent list of required courses.

# B.S.Chm, Biochemistry Track

## B.S.Chm, Biochemistry Track Requirements: 42 Credits

**\*\*\*For Students Matriculated Prior to Fall 2014:**

CHM 315	Quantitative and Statistical Analysis <sup>1</sup>	4
CHM 321	Organic Chemistry I	3
CHM 322	Organic Chemistry I Laboratory	1
CHM 323	Organic Chemistry II	3
CHM 324	Organic Chemistry II Laboratory	1
CHM 341	Physical Chemistry I	3
CHM 342	Physical Chemistry Laboratory	2
CHM 381	Biochemistry	3
CHM 382	Biochemistry Laboratory	2
CHM 451	Inorganic Chemistry I	3
CHM 456	Instrumental Analysis	3
CHM 466	Instrumental Analysis Laboratory	2
CHM 497	Directed Independent Research II	1
CHM 496	Directed Independent Research I	2
or CHM 498	Directed Independent Research - Special	
Select one of the following:		3-6
CHM 532	Mathematical Concepts In Chemistry	
MTH 545	Differential Equations	
& MTH 529	and Linear Algebra	

**Select one of the following:** 3

CHM 521	Advanced Organic Chemistry: Synthetic Organic Methods	
CHM 523	Bioorganic Chemistry	
CHM 525	Organic Spectroscopic Analysis	
CHM 575	Nucleic Acid Biochemistry	
CHM 576	Protein Biochemistry	

**Select one of the following:** 3

BIO 317	Genetics	
BIO 362	Cell Structure and Function	
BIO 532	Current Topics in Cellular and Molecular Biology	

Total Credits 42-45

<sup>1</sup> Waived for students who have completed CHM 285 Advanced General Chemistry II/CHM 286 Chemistry and Statistical Analysis Laboratory.

## Requisite Courses

MTH 245 Calculus I and MTH 246 Calculus II are prerequisites for all chemistry courses beyond CHM 324 Organic Chemistry II Laboratory. General Physics I (PHY 211) and General Physics II (PHY 212) are pre-requisites to CHM 341 Physical Chemistry I. BIO 202 General Biology: Cellular and Molecular/BIO 206 General Biology: Cellular and Molecular and BIO 201 General Biology: Organismal and Population/BIO 205 General Biology: Organismal and Population Lab are prerequisites for the advanced biology courses.

### **\*\*\*For Students Matriculating Fall 2014 and after:**

CHM 315	Quantitative and Statistical Analysis <sup>1</sup>	4
CHM 321	Organic Chemistry I	3
CHM 322	Organic Chemistry I Laboratory	1
CHM 323	Organic Chemistry II	3
CHM 324	Organic Chemistry II Laboratory	1
CHM 341	Physical Chemistry I	3
CHM 342	Physical Chemistry Laboratory	2
CHM 343	Physical Chemistry II	3
CHM 381	Biochemistry	3
CHM 382	Biochemistry Laboratory	2
CHM 451	Inorganic Chemistry I	3
CHM 456	Instrumental Analysis	3
CHM 466	Instrumental Analysis Laboratory	2
CHM 497	Directed Independent Research II	1
CHM 496	Directed Independent Research I	2
or CHM 498	Directed Independent Research - Special	

**Select one of the following:** 3

CHM 521	Advanced Organic Chemistry: Synthetic Organic Methods	
CHM 392	Forensic Chemistry	

CHM 523	Bioorganic Chemistry	
CHM 525	Organic Spectroscopic Analysis	
CHM 575	Nucleic Acid Biochemistry	
CHM 576	Protein Biochemistry	
<b>Select one of the following:</b>		<b>3</b>
BIO 317	Genetics	
BIO 362	Cell Structure and Function	
BIO 532	Current Topics in Cellular and Molecular Biology	
Total Credits		42

<sup>1</sup> Waived for students who have completed CHM 285 Advanced General Chemistry II/CHM 286 Chemistry and Statistical Analysis Laboratory.

## Requisite Courses

MTH 245 Calculus I and MTH 246 Calculus II are prerequisites for all chemistry courses beyond CHM 324 Organic Chemistry II Laboratory. General Physics I (PHY 201) and General Physics II (PHY 202) are pre-requisites to CHM 341 Physical Chemistry I. BIO 202 General Biology: Cellular and Molecular/BIO 206 General Biology: Cellular and Molecular and BIO 201 General Biology: Organismal and Population/BIO 205 General Biology: Organismal and Population Lab are prerequisites for the advanced biology courses.

# B.S.Chm, Chemistry Track

## B.S.Chm., Major in Chemistry Requirements: 37 Credits

**\*\*\*For Students Matriculated Prior to Fall 2014:**

CHM 315	Quantitative and Statistical Analysis <sup>1</sup>	4
CHM 321	Organic Chemistry I	3
CHM 322	Organic Chemistry I Laboratory	1
CHM 323	Organic Chemistry II	3
CHM 324	Organic Chemistry II Laboratory	1
CHM 341	Physical Chemistry I	3
CHM 342	Physical Chemistry Laboratory	2
CHM 381	Biochemistry	3
CHM 451	Inorganic Chemistry I	3
CHM 456	Instrumental Analysis	3
CHM 466	Instrumental Analysis Laboratory	2
CHM 497	Directed Independent Research II	1
CHM 496	Directed Independent Research I	2
or CHM 498	Directed Independent Research - Special	
Select one of the following:		3-6
CHM 532	Mathematical Concepts In Chemistry	

MTH 545 & MTH 529	Differential Equations and Linear Algebra
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**Select two additional courses, one of which must be a laboratory-based course as follows:** 3-4

One of the courses must be taken from the following:

CHM 445	Chemical Thermodynamics
CHM 446	Statistical Mechanics
CHM 448	Group Theory
CHM 543	Selected Topics In Physical Chemistry
CHM 544	Quantum Chemistry
CHM 545	Advanced Kinetics
CHM 548	Chemical Applications of Spectroscopy
CHM 549	Computational Chemistry

Second course may be chosen from the list above or from the following:

CHM 351	Descriptive Inorganic Chemistry
CHM 382	Biochemistry Laboratory
CHM 421	Selected Topics In Organic Chemistry
CHM 502	Inorganic Chemistry II
CHM 515	Green Chemistry Laboratory
CHM 521	Advanced Organic Chemistry: Synthetic Organic Methods
CHM 523	Bioorganic Chemistry
CHM 525	Organic Spectroscopic Analysis
CHM 527	Polymer Chemistry
CHM 528	Polymer Chemistry Laboratory
CHM 556	Electrochemical Methods
CHM 575	Nucleic Acid Biochemistry
CHM 576	Protein Biochemistry

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Total Credits 37-41

<sup>1</sup> Waived for students who have completed CHM 285 Advanced General Chemistry II/CHM 286 Chemistry and Statistical Analysis Laboratory.

## Requisite Courses

MTH 245 Calculus I and MTH 246 Calculus II are prerequisites for all chemistry courses beyond CHM 324 Organic Chemistry II Laboratory. General Physics I (PHY 211) and General Physics II (PHY 212) are pre-requisites to CHM 341 Physical Chemistry I. BIO 202 General Biology: Cellular and Molecular/BIO 206 General Biology: Cellular and Molecular and BIO 201 General Biology: Organismal and Population/BIO 205 General Biology: Organismal and Population Lab are prerequisites for the advanced biology courses.

**\*\*\*For Students Matriculating Fall 2014 and after:**

CHM 315	Quantitative and Statistical Analysis <sup>1</sup>	4
CHM 321	Organic Chemistry I	3

CHM 322	Organic Chemistry I Laboratory	1
CHM 323	Organic Chemistry II	3
CHM 324	Organic Chemistry II Laboratory	1
CHM 341	Physical Chemistry I	3
CHM 342	Physical Chemistry Laboratory	2
CHM 343	Physical Chemistry II	3
CHM 381	Biochemistry	3
CHM 451	Inorganic Chemistry I	3
CHM 456	Instrumental Analysis	3
CHM 466	Instrumental Analysis Laboratory	2
CHM 497	Directed Independent Research II	1
CHM 496	Directed Independent Research I	2
or CHM 498	Directed Independent Research - Special	

**Select two additional courses, one of which must be a laboratory-based course as follows:** 3-4

One of the courses must be taken from the following:

CHM 445	Chemical Thermodynamics
CHM 446	Statistical Mechanics
CHM 448	Group Theory
CHM 543	Selected Topics In Physical Chemistry
CHM 544	Quantum Chemistry
CHM 545	Advanced Kinetics
CHM 548	Chemical Applications of Spectroscopy
CHM 549	Computational Chemistry

Second course may be chosen from the list above or from the following:

CHM 351	Descriptive Inorganic Chemistry
CHM 382	Biochemistry Laboratory
CHM 392	Forensic Chemistry
CHM 421	Selected Topics In Organic Chemistry
CHM 502	Inorganic Chemistry II
CHM 515	Green Chemistry Laboratory
CHM 521	Advanced Organic Chemistry: Synthetic Organic Methods
CHM 523	Bioorganic Chemistry
CHM 525	Organic Spectroscopic Analysis
CHM 527	Polymer Chemistry
CHM 528	Polymer Chemistry Laboratory
CHM 556	Electrochemical Methods
CHM 575	Nucleic Acid Biochemistry
CHM 576	Protein Biochemistry

- <sup>1</sup> Waived for students who have completed CHM 285 Advanced General Chemistry II/CHM 286 Chemistry and Statistical Analysis Laboratory.

## Requisite Courses

MTH 245 Calculus I and MTH 246 Calculus II are prerequisites for all chemistry courses beyond CHM 324 Organic Chemistry II Laboratory. General Physics I (PHY 201) and General Physics II (PHY 202) are pre-requisites to CHM 341 Physical Chemistry I. BIO 202 General Biology: Cellular and Molecular/BIO 206 General Biology: Cellular and Molecular and BIO 201 General Biology: Organismal and Population/BIO 205 General Biology: Organismal and Population Lab are prerequisites for the advanced biology courses.

## Classical and Near Eastern Studies

Chair: Martha Habash

Department Office: Humanities Center, Room 216

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.

## Majors in Classical and Near Eastern Studies

### Specific Requirements for Admission to Classical Languages Major

Satisfactory completion of the 111-112-225 sequence (or equivalent) in the track-language.  
Satisfactory completion of CNE/GRK/LAT 300.

- B.A., Major in Classical Languages: Greek Track (p. 185)
- B.A., Major in Classical Languages: Latin Track (p. 187)
- B.A., Major in Classical and Near Eastern Civilizations (p. 188)

## Minors in Classical and Near Eastern Studies

- Ancient Greek (p. 189)
- Ancient History (p. 190)
- Classical and Near Eastern Civilizations (p. 191)
- Latin (p. 191)

## Courses

### **GRK 101. Beginning Greek I. 3 credits. FA**

Basic vocabulary, syntax, and morphology for reading classical and New Testament Greek authors.

### **GRK 102. Beginning Greek II. 3 credits. SP**

Completion of study of basic vocabulary, syntax, and morphology. P: GRK 101 or equiv.

**GRK 111. Beginning Greek I. 4 credits.**

Course designed to focus on the basic vocabulary, grammar, and syntax of Ancient Greek as well as provide insight into ancient Greek culture.

**GRK 112. Beginning Greek II. 4 credits.**

Course designed to continue the introduction of the basic vocabulary, grammar, and syntax of Ancient Greek as well as provide insight into ancient Greek culture. In addition, selections from major authors of Greek prose will be read. P: GRK 111 or equivalent.

**GRK 225. Intermediate Greek. 3 credits.**

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 111 and GRK 112. P: GRK 112.

**GRK 300. Introduction to the Ancient Mediterranean World. 3 credits. SP (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 credits.**

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 credits. AY, SP**

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 credits.**

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 credits.**

Students will pursue thematically-tied or genre-related readings of various authors of the Archaic period (such as epic or lyric). This course is repeatable to a max of 6 credits. P: GRK 201 or equiv.

**GRK 402. Classical Greek Authors. 3 credits.**

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 credits.**

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 credits.**

Students will read authors of the Post-Classical period (such as Polybius, Plutarch, etc.). This course may be repeated to max of six credits. P: GRK 201 or equiv.

**GRK 405. Post-Classical Greek Themes and Genres. 3 credits.**

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 credits.**

Students will read late-Greek or Koine authors (such as Origen or Nonnos). May be repeated to a max of 6 credits. P: GRK 201 or equiv.

**GRK 407. Late/koine Greek Themes and Genres. 3 credits.**

Students will pursue thematically-tied or genre-related readings of various late-Greek or Koine authors of the same period (such as from the Septuagint or New Testament). This course may be repeated to a max of 6 credits. P: GRK 201 or equiv.

**GRK 408. Byzantine Greek Authors. 3 credits.**

Students will read authors of the Byzantine period (such as Procopius, Photius, or Anna Comnena). May be repeated to a max of 6 credits. P: GRK 201 or equiv.

**GRK 409. Byzantine Greek Themes and Genres. 3 credits.**

Students will pursue thematically-tied or genre-related readings of various authors of the Byzantine period (such as epic or historiography). May be repeated to a max of 6 credits. P: GRK 201 or equiv.

**GRK 410. Diachronic Readings in Greek. 3 credits.**

Students will read works by Greek authors from different periods. They will be linked in any number of ways, e.g., by genre, theme, or subject matter. May be repeated to a max of six credits. P: GRK 201 or equiv.

**GRK 411. Readings in Greek and Latin. 3 credits. (Same as LAT 411)**

Students will pursue thematically-linked reading of the works of Greek and Latin authors from different periods (such as comparative readings in drama, or philosophy, or historiography). May be repeated to a max of six credits. P: GRK 201 or equiv.

**GRK 493. Directed Independent Readings. 2-4 credits. FA, SP, SU**

Designed to meet the special needs of qualified students. Credit by arrangement. This course may be repeated to a max of six hours. P: DC.

**GRK 498. Senior Capstone Seminar. 3 credits. FA (Same as CNE 498, LAT 498)**

Directed research on a general topic; preparation and public presentation of a senior thesis. GRK 498 only open to Greek Majors.

**HEB 101. Introduction To Classical Hebrew I. 3 credits. FA**

Introduction to Classical Hebrew: alphabet, paradigms, introductory grammar.

**HEB 102. Introduction To Classical Hebrew II. 3 credits. SP**

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 credits. OD**

Literary analysis of select Biblical poetry (prophets and psalms) with emphasis on structure, cultural context, and linguistic styles. P: HEB 102.

**LAT 101. Beginning Latin I. 3 credits. FA, SP**

Basic vocabulary, syntax and morphology for reading Classical Latin.

**LAT 102. Beginning Latin II. 3 credits. FA, SP**

Completion of study of basic vocabulary, syntax, and morphology. P: LAT 101 or equiv.

**LAT 111. Beginning Latin I. 4 credits.**

Course designed to focus on the basic vocabulary, grammar, and syntax of Classical Latin as well as provide insight into Roman culture.

**LAT 112. Beginning Latin II. 4 credits.**

Course designed to continue the introduction of the basic vocabulary, grammar, and syntax of Latin as well as provide insight into Roman culture. In addition, selections from major authors of Latin prose will be read. P: LAT 111 or equivalent.

**LAT 225. Intermediate Latin. 3 credits.**

Selections from Cicero's orations and/or other verse authors. This course applies and extends the language study done in LAT 112. P: LAT 112.

**LAT 300. Introduction to the Ancient Mediterranean World. 3 credits. SP (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 credits.**

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 credits. SP**

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 credits.**

Students will read authors of the Early period (such as Plautus, Cato, or Terence). This course is repeatable to a max of 6 credits. P: LAT 201 or equiv.

**LAT 401. Early Latin Themes and Genres. 3 credits.**

Students will pursue thematically-tied or genre-related readings of various authors of the Early period (such as the Twelve Tables, inscriptions, or readings to explore the evolution of Latin). Course may be repeated to a max of 6 credits. P: LAT 201 or equiv.

**LAT 402. Classical Latin Authors. 3 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits. (Same as GRK 411)**

Students will pursue thematically-linked reading of the works of Greek and Latin authors from different periods (such as comparative readings in drama, or philosophy, or historiography). May be repeated to a max of 6 credits. P: LAT 201 or equiv. and GRK 201 or equiv.

**LAT 450. Methods And Content In Secondary-School Latin. 3 credits.**

Basic principles of Latin teaching in the high school. Objectives and content of the four years of Latin. Comparison of various methods of teaching.

**LAT 493. Directed Independent Readings. 2-4 credits. FA, SP, SU**

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 credits. FA (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.

## B.A., Major in Classical Languages: Greek Track

### B. A., Major in Classical Languages:Greek Track Requirements: 29 Credits

GRK 300	Introduction to the Ancient Mediterranean World	3
GRK 303	Greek Prose Composition	3
GRK 498	Senior Capstone Seminar	3
<b>Select nine credits from the following:</b> <sup>1</sup>		<b>9</b>
GRK 301	Readings in Greek	
GRK 400	Archaic Greek Authors	
GRK 401	Archaic Greek Themes and Genres	
GRK 402	Classical Greek Authors	

GRK 403	Classical Greek Themes and Genres	
GRK 404	Post-Classical Greek Authors	
GRK 405	Post-Classical Greek Themes and Genres	
GRK 406	Late/koine Greek Authors	
GRK 407	Late/koine Greek Themes and Genres	
GRK 408	Byzantine Greek Authors	
GRK 409	Byzantine Greek Themes and Genres	
GRK 410	Diachronic Readings in Greek	
GRK 411	Readings in Greek and Latin	
GRK 493	Directed Independent Readings	
<b>Select 11 credits from the following:</b>		<b>11</b>
LAT 111	Beginning Latin I	
LAT 112	Beginning Latin II	
LAT 225	Intermediate Latin	
LAT 301	Readings in Latin	
LAT 303	Latin Prose Composition	
LAT 400	Early Latin Authors	
LAT 401	Early Latin Themes and Genres	
LAT 402	Classical Latin Authors	
LAT 403	Classical Latin Themes and Genres	
LAT 404	Augustan Latin Authors	
LAT 405	Augustan Latin Themes and Genres	
LAT 406	Post-Augustan/late Latin Authors	
LAT 407	Post-Augustan/late Latin Themes and Genres	
LAT 408	Medieval Latin Authors	
LAT 409	Medieval Latin Themes and Genres	
LAT 410	Diachronic Readings in Latin	
LAT 411	Readings in Greek and Latin	
LAT 493	Directed Independent Readings	
<hr/> Total Credits		29

<sup>1</sup> Three different courses must be used. Repeating these courses will not fulfill the requirement.

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

## B.A., Major in Classical Languages: Latin Track

### B. A., Major in Classical Languages: Latin Track Requirements: 29 Credits

LAT 300	Introduction to the Ancient Mediterranean World	3
LAT 303	Latin Prose Composition	3
LAT 498	Senior Capstone Seminar	3
<b>Select nine credits from the following:</b> <sup>1</sup>		<b>9</b>
LAT 301	Readings in Latin	
LAT 400	Early Latin Authors	
LAT 401	Early Latin Themes and Genres	
LAT 402	Classical Latin Authors	
LAT 403	Classical Latin Themes and Genres	
LAT 404	Augustan Latin Authors	
LAT 405	Augustan Latin Themes and Genres	
LAT 406	Post-Augustan/late Latin Authors	
LAT 407	Post-Augustan/late Latin Themes and Genres	
LAT 408	Medieval Latin Authors	
LAT 409	Medieval Latin Themes and Genres	
LAT 410	Diachronic Readings in Latin	
LAT 411	Readings in Greek and Latin	
LAT 493	Directed Independent Readings	
<b>Select 11 credits from the following:</b>		<b>11</b>
GRK 111	Beginning Greek I	
GRK 112	Beginning Greek II	
GRK 225	Intermediate Greek	
GRK 301	Readings in Greek	
GRK 303	Greek Prose Composition	
GRK 400	Archaic Greek Authors	
GRK 401	Archaic Greek Themes and Genres	
GRK 402	Classical Greek Authors	
GRK 403	Classical Greek Themes and Genres	
GRK 404	Post-Classical Greek Authors	
GRK 405	Post-Classical Greek Themes and Genres	
GRK 406	Late/koine Greek Authors	
GRK 407	Late/koine Greek Themes and Genres	
GRK 408	Byzantine Greek Authors	
GRK 409	Byzantine Greek Themes and Genres	
GRK 410	Diachronic Readings in Greek	

GRK 411	Readings in Greek and Latin	
GRK 493	Directed Independent Readings	
Total Credits		29

<sup>1</sup> Three different courses must be used. Repeating these courses will not fulfill the requirement.

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

## B.A., Major in Classical and Near Eastern Civilizations

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

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

**Select three credits from each of the following four areas: <sup>1</sup>**

Literature <sup>2</sup> 3

CNE 311	Heroes, Ghosts, Witches, Gods, and Monsters:Classical Mythology	
CNE 313	The Hero in Antiquity	
CNE 321	Epic Literature	
CNE 323	Classical Greek Drama	
CNE 381	Ancient Medicine	
CNE 423	Greek and Roman Comedy	
CNE 425	Myths That We Live By	
CNE 440	Selected Topics In Classical Literature	
CNE 462	Homer, Troy and the Trojan War	
CNE 520	The Dead Sea Scrolls	
CNE 529	Translations of the Bible	

History 3

CNE 316	Gender and Sexuality in Ancient Greece and Hellenistic Egypt	
CNE 317	Gender and Sexuality in Ancient Rome and Roman Egypt	
CNE 348	Muhammad And The Rise Of Islam	
CNE 351	Warfare in the Classical World	
CNE 358	An Introduction to Roman Law	
CNE 401	Greek History to the Peloponnesian War	
CNE 402	Alexander the Great and His Legacy	
CNE 403	The Roman Republic	
CNE 404	The Roman Empire	
CNE 418	Great Empires of the Near East	
CNE 419	Ancient Egypt: History, Society and Culture	
CNE 420	Selected Topics In Ancient History	

CNE 524	History of Ancient Israel	
Philosophy/Religion		3
CNE 315	Religions In The Greco-Roman World	
CNE 360	History of Mediaeval Ethics	
CNE 370	History Of Classical Greek Philosophy	
CNE 371	History Of Hellenistic Philosophy	
CNE 372	History of Medieval Philosophy	
CNE 410	Stoicism	
CNE 520	The Dead Sea Scrolls	
CNE 523	Israelite Religions	
Art/Archaeology		3
CNE 349	Egyptian Art And Archaeology	
CNE 350	Archaeology of Israel & Jordan	
CNE 354	Greek Art and Archaeology	
CNE 357	Ancient Near Eastern Art And Archaeology	
CNE 362	Imaging Christ: The Challenge of Early Christian Art	
CNE 365	Greek Art	
CNE 366	Etruscan and Roman Art	
CNE 369	Medieval Art and Architecture	
CNE 430	Selected Topics In Ancient Art And Archaeology	
CNE 461	The City of Rome in Antiquity	
CNE 465	The City of Rome since Antiquity	
CNE 525	Archaeological Fieldwork And Analysis	
CNE 526	Archaeology Of Roman Palestine	
<b>Select an additional 12 upper-division credits chosen with the major advisor.</b>		<b>12</b>
Total Credits		30

<sup>1</sup> Or one or more upper-division courses chosen with the approval of the major advisor.

<sup>2</sup> One 200-level course in the Magis Core component of "Literature" listed as CNE 2XX may apply toward the major.

With the consent of the Chair, as many as three 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

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.

## Minor in Ancient Greek Requirements: 18 Credits

Select twelve credits from the following:

12

GRK 225	Intermediate Greek
GRK 301	Readings in Greek
GRK 303	Greek Prose Composition
GRK 400	Archaic Greek Authors
GRK 401	Archaic Greek Themes and Genres
GRK 402	Classical Greek Authors
GRK 403	Classical Greek Themes and Genres
GRK 404	Post-Classical Greek Authors
GRK 405	Post-Classical Greek Themes and Genres
GRK 406	Late/koine Greek Authors
GRK 407	Late/koine Greek Themes and Genres
GRK 408	Byzantine Greek Authors
GRK 409	Byzantine Greek Themes and Genres
GRK 410	Diachronic Readings in Greek
GRK 411	Readings in Greek and Latin
GRK 493	Directed Independent Readings <sup>1</sup>

Select six additional credits from the list above or CNE courses numbered 300 or above, or six credits from Arabic, Hebrew or Latin courses.

6

Total Credits

18

<sup>1</sup> No more than six credits in Directed Independent Readings will count toward the minor.

## Ancient History Minor

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.

## Minor in Ancient History Requirements: 18 Credits

Select four of the following:

12

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

Select two additional courses from the list below and the courses not taken above:

6

CNE 316	Gender and Sexuality in Ancient Greece and Hellenistic Egypt
CNE 317	Gender and Sexuality in Ancient Rome and Roman Egypt

CNE 348	Muhammad And The Rise Of Islam
CNE 349	Egyptian Art And Archaeology
CNE 350	Archaeology of Israel & Jordan
CNE 351	Warfare in the Classical World
CNE 354	Greek Art and Archaeology
CNE 357	Ancient Near Eastern Art And Archaeology
CNE 358	An Introduction to Roman Law
CNE 362	Imaging Christ: The Challenge of Early Christian Art
CNE 420	Selected Topics In Ancient History
CNE 430	Selected Topics In Ancient Art And Archaeology
CNE 461	The City of Rome in Antiquity
CNE 524	History of Ancient Israel
CNE 526	Archaeology Of Roman Palestine
<hr/>	
Total Credits	18

## Classical and Near Eastern Civilizations Minor

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.

### Minor in Classical and Near Eastern Civilizations Requirements: 18 Credits

Select eighteen credits from 300-, 400- or 500-level CNE courses.	18
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Total Credits	18

## Latin Minor

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.

### Minor in Latin Requirements: 18 Credits

Select twelve credits from the following:	12
LAT 225	Intermediate Latin
LAT 301	Readings in Latin
LAT 303	Latin Prose Composition
LAT 400	Early Latin Authors
LAT 401	Early Latin Themes and Genres
LAT 402	Classical Latin Authors
LAT 403	Classical Latin Themes and Genres
LAT 404	Augustan Latin Authors

LAT 405	Augustan Latin Themes and Genres	
LAT 406	Post-Augustan/late Latin Authors	
LAT 407	Post-Augustan/late Latin Themes and Genres	
LAT 408	Medieval Latin Authors	
LAT 409	Medieval Latin Themes and Genres	
LAT 410	Diachronic Readings in Latin	
LAT 411	Readings in Greek and Latin	
LAT 493	Directed Independent Readings <sup>1</sup>	
Select six additional credits from the list above or from CNE courses numbered 300 or above, or from any Arabic, Hebrew or Greek courses.		6
Total Credits		18

<sup>1</sup> No more than six hours in LAT 493 Directed Independent Readings will be accepted toward the minor.

## Communication Studies

Chair: M. Chad McBride

Department Office: Hitchcock Communication Arts Building, Room 310

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.

### Major in Communication Studies

#### Specific Requirement for Admission to the Communication Studies Major

Overall GPA of 2.25.

- B.A., Major in Communication Studies (p. 199)

### Minor in Communication Studies

- Communication Studies (p. 199)

### Associate Degree in the College of Professional Studies

This department offers the following associate degree to students in the College of Professional Studies:

- Organizational Communication (p. 586)

## Certificate Programs in the College of Professional Studies

This department offers the following certificate program to students in the College of Professional Studies:

- Communication Studies (p. 612)

### Courses

#### **COM 101. Communicating Critical Issues. 1 credit.**

An introduction to the process by which informed, sound, and sensitive messages are formulated and delivered to influence decision-making. Emphasis on developing analytic approaches to message preparation: the validity, credibility, and uses of evidence; patterns of inference; and the selection and presentation of judgements. CO: A Critical Issues in Human Inquiry course.

#### **COM 152. Civic Engagement through Public Communication. 3 credits. FA, SP, SU**

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 credit.**

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 credit.**

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 credit.**

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 170. Communication across Cultures. 3 credits.**

Communicating across Cultures will explore how we communicate interculturally, focusing first on the interpersonal (fact-to-face) communication that happens when we volunteer, travel, and socialize, and then on meta-level communication that audiences receive through media depictions of cultures (both explicit and implied).

**COM 171. Friendships and Our Changing Social World. 3 credits.**

Friendships are common and important human experience; they are often seen as egalitarian but can also (re)produce hierarchies. Students will understand the dimensions of friendships (from Aristotle's notions to Facebook "friends") and critically analyze the functions of friendships and the role they play in constructing social structure. CO: COM 101.

**COM 172. Princesses, Brides and Mothers. 3 credits.**

This course will descriptively and critically examine princesses, brides, and mothers as feminine icons. CO: COM 101.

**COM 173. Health, Communication, and Media. 3 credits.**

This course explores how popular media functions to influence health beliefs and behaviors. We will examine the effects health beliefs have on our interactions with others and critically evaluate health messages. Students will gain an understanding of how socially held health beliefs can privilege some groups in society over others. CO: COM 101.

**COM 200. Communication Practices. 3 credits. SP**

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 Forensics. 1-3 credits. FA, SP**

Foundations of forensics. May be repeated to a limit of three hours. P: IC.

**COM 211. Communication Studies: Relationships, Work, and Culture. 3 credits.**

Communications Studies: Relationships, Work, and Culture 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 that may include Rhetoric, Interpersonal, Organizational, Mediated, Intercultural, Health, Group, Nonverbal, and Gender Communication.

**COM 244. Cross-Cultural Communication. 3 credits.**

Course combines attention to sociolinguistic theory and analysis with practical strategies for maximizing communication between people from varying national, ethnic, professional, religious, and regional backgrounds. P: So. stdg.

**COM 300. Communication Research Methods. 3 credits. FA**

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 Forensics. 1-3 credits. FA, SP**

Further studies in forensics techniques and practice. May be repeated to a limit of three hours. P: IC.

**COM 312. Mass Media and Modern Culture. 3 credits. OD (Same as AMS 312, ENG 312)**

Examination of the role of film, television, and print media in American life. P: ENG 120, ENG 121, ENG 150, Jr. stdg.

**COM 314. Managerial Communication. 3 credits. FA, SP, SU**

Theory and practice of advanced topics in managerial communication. Topics include organizational structure and lines of communication; interpersonal and group communication in organizational settings; problem solving; interviews; techniques for written and oral presentations. P: COM 152 and Jr. stdg.

**COM 317. Studies in Argumentation and Debate. 3 credits.**

Practical course in the study of oratorical and debate techniques.

**COM 319. Language, Culture, And The Individual. 3 credits. 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 interrelationship of individuals, groups, and the wider culture through language. P: So. stdg.

**COM 320. Leadership: Theories, Styles, And Skills. 3 credits. OD (Same as EDU 320, ILS 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 credits. 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 credits. FA**

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 Theories. 3 credits. FA**

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 credits. SP**

Examination of person-to-person communication. Topics include perception, motivation, language and meaning, nonverbal communication, and listening.

**COM 362. Small Group Communication. 3 credits.**

Examines the need for communication within and between groups within the organization. Theory and practice in methods for improving communication within and between groups, including leadership, conflict management, and decision-making.

**COM 363. Family Communication. 3 credits.**

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 credits.**

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, ENG 121, ENG 150.

**COM 390. Health Communication. 3 credits.**

This course investigates research and theories and permits students to demonstrate practical applications of communication within health care situations. The course emphasizes understanding communication variables such as verbal, nonverbal, conflict, listening, and self-disclosure in health care contexts. The course also examines issues of ethics and relationships between health care providers, patients, and families.

**COM 401. Junior Varsity Debate And Forensics. 1-3 credits.**

Competitive debate and forensics. May be repeated for credit to a limit of three hours. P: IC.

**COM 440. Gender Communication. 3 credits.**

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 credits.**

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 credits.**

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 447. Special Methods In Teaching Secondary School Speech. 3 credits.**

To meet the needs of the teacher, or speech major who anticipates a teaching career. Practical methods and materials for a survey course in speech fundamentals. P: DC of Communication Studies, Education.

**COM 450. Communicating Health Narratives. 3 credits.**

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 policy, and health politics). We will explore how narratives function to construct and communicate health beliefs in these contexts.

**COM 459. Environmental Communication. 3 credits.**

We experience and understand the natural world through communication, through different channels, and through discourses that have evolved over time. This course interrogates this communication as well as the underlying assumptions that ground such communication. In doing so, we will evaluate the social construction of the environment and environmental issues through media and other communication processes.

**COM 460. Historical and Contemporary Perspectives on Organizational Communication. 3 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 Across the Lifespan. 3 credits.**

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 perspective 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 credits.**

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 479. Communication and Theology. 3 credits.**

This course explores communication from a Christian perspective. Christian values such as charity, justice, freedom, human dignity, reconciliation, and peace as developed in Sacred Scripture, Church documents, and by great Christian thinkers are applied critically to issues and cases from three areas of communication studies: Interpersonal Communication, Organizational Communication, and Mass Communication. P: PHL 250 or THL 250, and Sr. Stdg.

**COM 481. Rhetoric Dimensions of Persuasion and Social Movements. 3 credits.**

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 credits. 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 credits.**

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 credits. SP**

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 credits. FA, SP, SU**

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 adviser.

**COM 494. Directed Independent Study in Communication. 1-3 credits. FA, SP, SU**

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 credits. 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.

**COM 496. Communication Internship and Professional Development. 1-3 credits. FA, SP, SU**

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 credits. FA**

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 498. Directed Independent Research - Special. 2-3 credits.**

Participation in a pre-approved independent research project conducted outside the Creighton University Chemistry Department. P: CHM 324 or CHM 285, 286; IC required.

**COM 501. Varsity Debate and Forensics. 1-3 credits. FA, SP**

Intercollegiate competitive forensics. May be repeated for credit to a limit of three hours. P: IC.

**COM 559. Environmental Communication. 3 credits. OD (Same as EVS 559)**

We experience and understand the natural world through communication, through different channels, and through discourses that have evolved over time. This course interrogates this communication as well as the underlying assumptions that ground such communication. In doing so, we will evaluate the social construction of the environment and environmental issues through media and other communication processes.

## B.A., Major in Communication Studies

### B. A., Major in Communication Studies Requirements: 36 Credits

COM 200	Communication Practices	3
COM 300	Communication Research Methods	3
COM 359	Rhetoric and Public Culture	3
COM 360	Organizational Communication Theories	3
COM 361	Interpersonal Communication	3
COM 490	Communication and Community	3
COM 496	Communication Internship and Professional Development	3
COM 497	Senior Research in Communication Studies	3
Select twelve elective hours from COM courses numbered 300-level and above.		12
Total Credits		36

## Communication Studies Minor

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.

### Minor in Communication Studies Requirements: 18 Credits

COM 359	Rhetoric and Public Culture	3
COM 360	Organizational Communication Theories	3

COM 361	Interpersonal Communication	3
Select nine additional credits from COM courses numbered 200 and above.		9
Total Credits		18

## Economics

Chair: John Wingender

Department Office: Harper Center

The Department of Economics, supervised by the Department of Economics and Finance in the Heider 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 Heider College of Business (p. 534) for further information about this degree.

## Major in Economics

- B.A., Major in Economics (Arts and Sciences students) (p. 203)

## Minor in Economics

- Economics (p. 203)

## Courses

### **ECO 203. Introductory Microeconomics. 3 credits. FA, SP, SU**

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 credits. FA, SP, SU**

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 credits. FA**

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 MTH 245; Jr. stdg.

### **ECO 305. Intermediate Macroeconomics. 3 credits. SP**

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 credits. FA**

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 credits. 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 credits. 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 366. Economics Internship. 3 credits. FA, SP, SU**

This course is designed to provide students with practical economics experience by applying economics 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' economics course work, and c) approval by the coordinator of Economics internships in the Department of Economics and Finance. The course is graded satisfactory/unsatisfactory and only 3 hours of internship credit may be used to satisfy graduation requirements. P: Second semester Jr. or higher standing.

**ECO 408. Current Issues In Social Economics And Political Economy. 3 credits. 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 ECO 301; Jr. stdg.

**ECO 413. Market Power And Antitrust Policy. 3 credits. 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 credits. 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 credits. 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 credits. 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 credits. 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 credits. FA, SP**

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 credits. FA, SP**

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 QPA 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 credits. 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 QPA 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 credits. SP**

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 credits. 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 credits. 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: ECO 205 or equivalent for Graduate students.

**ECO 528. International Economic Development. 3 credits. SP**

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 requirement for an international course. P: ECO 205 or equivalent for Graduate students.

**ECO 538. International Economics. 3 credits. FA**

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 requirements for an international course. P: ECO 205 or equivalent for Graduate students.

## B.A., Major in Economics (Arts and Sciences students)

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

#### Course Requirements

BUS 229	Statistical Analysis	4
ECO 203	Introductory Microeconomics	3
ECO 205	Introductory Macroeconomics	3
ECO 303	Intermediate Microeconomics	3
ECO 305	Intermediate Macroeconomics	3
ECO 508	Development Of Political Economy	3
Select fifteen hours of upper division courses in Economics.		15
Total Credits		34

ECO 203 Introductory Microeconomics and ECO 205 Introductory Macroeconomics should be taken before their junior year. ECO 303 Intermediate Microeconomics and ECO 305 Intermediate Macroeconomics should be taken in their junior year.

## Economics Minor

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.

### Minor in Economics Requirements: 18 Credits

ECO 203	Introductory Microeconomics	3
ECO 205	Introductory Macroeconomics	3
ECO 303	Intermediate Microeconomics	3
ECO 305	Intermediate Macroeconomics	3
Select six credits of 300 and above ECO courses.		6
Total Credits		18

## Education and Counselor Education

Chair: Debra L. Ponec

Associate Chair: Lynne E. Houtz

Director of Secondary Education: Thomas A. Simonds, S.J.

Director of Elementary Education: Lynn E. Olson

Directors of Counselor Education: C. Timothy Dickel, Jeffrey Smith

Director of Educational Leadership: Timothy Cook

Coordinator of Early Childhood Education: Jean Hearn

Department Office: Epley, Room 450

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); three graduate programs: M.Ed. (majors: elementary, secondary); M.S. in educational leadership (elementary or secondary), and school counseling (elementary or secondary). 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.*

## **Majors in Education and Counselor Education**

### **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 Praxis Core Test, receive acceptable grades in EDU 170 Diversity and Justice in Education, EDU 208 Understanding and Serving Diverse Populations in Education, and EDU 210 Child And Adolescent Development, 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) (p. 212)
- Co-Major: Secondary School Teaching Endorsement (7-12) (p. 213)

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.

## **Courses**

### **COU 390. Residence Halls Advising. 3 credits. FA, SP**

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 advisers only.

**EDU 103. American Education And The Interactive Process. 3 credits. FA, SP**

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. P: Soph. stdg. or above.

**EDU 131. Literature for Children. 3 credits. FA**

Study of children's literature, pre-primary through junior high; history; types; the contemporary scene; extensive required readings.

**EDU 170. Diversity and Justice in Education. 3 credits.**

Course, both lecture and field-based oriented, provides inquiry into the professional field of education. Problem-solving activities, critical thinking case studies, and simulations will provide opportunities for students to explore the purposes of education, development of curriculum, cultural diversity of students and families, and history and philosophy of education. CO: COM 101.

**EDU 208. Understanding and Serving Diverse Populations in Education. 3 credits. FA, SP**

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 EDU 210. P: EDU 103 and a background check; DC and CO: EDU 210.

**EDU 209. Physical Education In The Elementary School. 3 credits. FA, SP**

Organizational and instructional techniques for elementary school physical education activities. Specific emphasis on classroom movement activities to enhance learning as well as health and nutrition. Combination of lecture and laboratory session. P: EDU 103, EDU 208, EDU 210, and DC.

**EDU 210. Child And Adolescent Development. 3 credits. FA, SP**

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 EDU 210. P: EDU 103; DC and CO: EDU 208.

**EDU 242. Computer Related Technologies In Teacher Education. 2 credits. FA, SP**

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 or EDU 170, DC.

**EDU 315. World Geography. 3 credits. FA, SP**

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 credits. 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 credits. SP**

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, EDU 207 or EDU 208, EDU 210; Jr. stdg, Adm. to Dept. CO: EDU 342, EDU 525; DC.

**EDU 342. Technology Laboratory In Secondary Education. 2 credits. SP**

Development of skills in computer-related technology as curriculum enhancers and productivity tools for teaching and learning in secondary schools. P: EDU 103 or EDU 170, EDU 207 or EDU 208, EDU 210; Jr. stdg. CO: EDU 341.

**EDU 345. Philosophy for Children. 3 credits. (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 443. Special Methods Of Teaching In The Secondary School: Teaching Of Mathematics. 3 credits.**

Each course deals with the objectives and functions of the particular subject 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. Students complete 25 hours of practicum in a 7-12 school setting. P: or C: EDU 341 and 342; Jr. stdg.

**EDU 444. Special Methods Of Teaching In The Secondary School: Teaching Of Modern Languages. 3 credits.**

Each course deals with the objectives and functions of the particular subject 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. Students complete 25 hours of practicum in a 7-12 school setting. P: or C: EDU 341 and 342; Jr. stdg.

**EDU 445. Special Methods Of Teaching In The Secondary School: Teaching Of Science. 3 credits.**

Each course deals with the objectives and functions of the particular subject 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. Students complete 25 hours of practicum in a 7-12 school setting. P: or C: EDU 341 and 342; Jr. stdg.

**EDU 446. Special Methods Of Teaching In The Secondary School: Teaching Of Social Studies. 3 credits.**

Each course deals with the objectives and functions of the particular subject 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. Students complete 25 hours of practicum in a 7-12 school setting. P: or C: EDU 341 and 342; Jr. stdg.

**EDU 447. Special Methods In Teaching Secondary School: Teaching Of Speech. 3 credits.**

Each course deals with the objectives and functions of the particular subject 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. Students complete 25 hours of practicum in a 7-12 school setting. P: or C: EDU 341 and 342; Jr. stdg.

**EDU 448. Special Methods Of Teaching In The Secondary School: Teaching Of Drama. 3 credits.**

Each course deals with the objectives and functions of the particular subject 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. Students complete 25 hours of practicum in a 7-12 school setting. P: or C: EDU 341 and 342; Jr. stdg.

**EDU 449. Special Methods Of Teaching In The Secondary School: Teaching Of Religion. 3 credits.**

Each course deals with the objectives and functions of the particular subject 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. Students complete 25 hours of practicum in a 7-12 school setting. P: or C: EDU 341 and 342; Jr. stdg.

**EDU 450. Violence in America: Nature, Consequences, and Personal Responses. 3 credits. (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 credit. FA**

This course, the "August Experience," 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/EDU 566 or EDU 568/EDU 569; DC.

**EDU 463. Communication Consulting. 3 credits. 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 credits. (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 credits. 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 or HRS 200; Sr. stdg.

**EDU 493. Directed Independent Readings. 1-6 credits. OD**

May be repeated to a limit of six hours. P: DC.

**EDU 495. Directed Independent Study. 1-6 credits. OD**

May be repeated to a limit of six hours. P: DC.

**EDU 497. Directed Independent Research. 1-3 credits. 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 credits. FA, SP**

Focus of the course is on meeting the variety of individual educational needs that confront a 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 credits. SU**

A multidisciplinary and life span approach to the study of persons with differences. P: DC.

**EDU 503. Foundations of Education. 1 credit. SU**

This course serves as an introduction to the educational profession and Creighton University's graduate program in teaching. Students will acquire a basic understanding of the history and philosophy of education in the United States, including Catholic school education. Students will also review professional ethics and complete case studies in ethical practice. Students will develop their own philosophy of education using an eclectic approach as the capstone assessment for this course. P: Dept. and program approval.

**EDU 510. Growth And Development Of Children And Adolescents. 3 credits. OD, SU**

This survey course covers the theory and research literature of child and adolescent development, beginning at conception and ending in late adolescence. Physical, cognitive, language, motor, personality, social, affective, moral, and spiritual development are considered as the course seeks to prepare students for roles in P-12 schools. Aiding hours in assigned school sites are required. P: DC.

**EDU 517. Mental Health Intervention Strategies For Children And Adolescents. 3 credits. 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 credits. OD, SU**

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 credits. FA, SP**

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/EDU 566 or EDU 568/EDU 569 or EDU 341 or EDU 551.

**EDU 526. Multicategorical Methods for the Mildly Handicapped. 3 credits.**

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 credits.**

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 credits.**

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 530. Elementary School Observation and Student Teaching the Mildly/Moderately Disabled. 3-14 credits. FA, SP**

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 credits. 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 New Generation Science Standards.

**EDU 535. Human Relations And Cultural Diversity. 3 credits. 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 538. Parks And Public Use Areas As Learning Sites. 3 credits.**

Designed to assure appropriate educational and recreational use of local and area outdoor environment facilities by classroom teachers and their students (K-12). Basic understanding of the concepts involved in maximizing the effectiveness of outdoor facilities. Extra fee required. P: IC.

**EDU 539. Nebraska Science Tour For Teachers. 3 credits.**

Designed to expose teachers to and assist them in understanding natural sciences in the state of Nebraska. Includes energy, weather, geology, and biology. Readings in specific literature and text material to be completed before and during the tour. Field experience includes a 1,700-mile group tour of the state of Nebraska with participation in instructional programs at predesignated sites including such places as electrical power stations, fish hatcheries, the Niobrara River, the Sandhills, Toadstool Park, and Scottsbluff National Monument.

**EDU 540. Secondary School Observation And Student Teaching The Mildly/Moderately Disabled. 8-14 credits. FA, SP**

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, EDU 593, Sr. stdg. or initial teaching certificate; DC.

**EDU 548. Teaching Reading In Content Areas In Middle And Secondary Schools. 3 credits. FA, SU**

Course designed for junior-high and secondary-school content-area teachers who have had little or no background in the field of teaching reading. Practical concepts, techniques, strategies and activities designed to enable the content-area teacher to develop better a student's reading skills and abilities while utilizing content materials. P or CO: EDU 341/EDU 342 or EDU 551/EDU 552, Jr. stdg.

**EDU 551. Methods Of Instruction For Secondary Teaching. 3 credits. FA, SU**

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, EDU 510, EDU 583.

**EDU 552. Technology Instruction For Secondary Teaching. 1 credit. FA**

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 556. Foundations and Best Practices of Early Childhood Education. 3 credits.**

An in-depth study of early childhood development theory (birth through age 8), principles and current research including both typical and atypical development and the implications this has for early childhood education. Study will extend to observational strategies and application of growth and development data in decision making for developmentally appropriate practice. A total of 20 clock hours of field experience will be required in conjunction with EDU 556. P: EDU 210.

**EDU 563. Assessing Organizational Systems. 3 credits. 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. Methods Of Teaching Language Arts In Elementary School. 3 credits. FA, SP**

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/EDU 566). P: EDU 103 or EDU 503, EDU 210 or EDU 510; DC; CO: EDU 566.

**EDU 566. Methods of Teaching of Elementary Reading. 3 credits. FA, SP**

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/EDU 566). P: EDU 103 or EDU 503, EDU 210 or EDU 510; DC; CO: EDU 565.

**EDU 567. Methods of Teaching Social Studies in Elementary School. 3 credits. FA, SP**

Emphasizes content and methods in teaching social studies in elementary and middle school. P: EDU 103 or EDU 503, EDU 210 or EDU 510; DC.

**EDU 568. Methods of Teaching Mathematics in Elementary School. 3 credits. FA, SP**

Emphasizes content and methods in teaching mathematics in elementary and middle school. Students complete a 25-hour practicum (EDU 568/EDU 569). P: EDU 103 or EDU 503, EDU 210, or EDU 510, DC; CO: EDU 569.

**EDU 569. Methods of Teaching Science in Elementary School. 3 credits. FA, SP**

Emphasizes content and methods in teaching science in elementary and middle school. Students complete a 25-hour practicum (EDU 568/EDU 569). P: EDU 103 or EDU 503, EDU 210 or EDU 510, DC, CO: EDU 568.

**EDU 575. Action Research in Your Content Area. 3 credits. FA**

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 EDU 342 or EDU 551 and EDU 552, or DC.

**EDU 576. Special Methods of Teaching Art in the Secondary School. 3 credits. 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 for Teaching Humanities in the Secondary School. 3 credits. 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 credits. 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 credits. OD (Same as THL 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: DC; P or CO: EDU 341 and EDU 342 or EDU 551 and EDU 552.

**EDU 583. Management Practices For Classroom Teachers. 3 credits. FA, SP, SU**

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 EDU 565/EDU 566 or EDU 568/EDU 569 or DC. Graduate standing required or DC for summer offering.

**EDU 586. Special Topics in Education. 2-3 credits. 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 credits. 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 590. First Year Teacher Induction Workshop. 3 credits. 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 credits. FA, SP**

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 and EDU 342 or EDU 551 and EDU 552, EDU 548, EDU 525, EDU 583, EDU 575; CO: EDU 593. Elementary: P: EDU 500, EDU 525, EDU 565, EDU 566, EDU 567, EDU 568, EDU 569, EDU 583; CO: EDU 593; DC.

**EDU 593. Student Teaching Seminar. 1 credit. FA, SP**

Student teachers deal with issues of classroom management, communication with families and communities, applications, portfolios, interviews, and relevant teaching concerns. CO: EDU 591.

## **B.S., Major in Elementary Education (P-6)**

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

EDU 170	Diversity and Justice in Education	3
EDU 208	Understanding and Serving Diverse Populations in Education	3
EDU 209	Physical Education In The Elementary School	3
EDU 210	Child And Adolescent Development	3
EDU 242	Computer Related Technologies In Teacher Education	1
ART 104	Elementary School Art	3
MUS 104	Elementary School Music	3
EDU 500	Remedial Reading	3
EDU 565	Methods Of Teaching Language Arts In Elementary School	3
EDU 566	Methods of Teaching of Elementary Reading	3
EDU 567	Methods of Teaching Social Studies in Elementary School	3
EDU 568	Methods of Teaching Mathematics in Elementary School	3
EDU 569	Methods of Teaching Science in Elementary School	3

EDU 525	Procedures for Including Students with Mild/Moderate Disabilities in the Regular Classroom	3
EDU 583	Management Practices For Classroom Teachers	3
EDU 591	Student Teaching <sup>1</sup>	3-14
EDU 593	Student Teaching Seminar <sup>1</sup>	1
EDU 131 or EDU 587	Literature for Children Methods Of Teaching Religion In Elementary School	3
Total Credits		50-61

<sup>1</sup> See Student Teaching below.

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.

## 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.

## Co-Major: Secondary School Teaching Endorsement (7-12)

### 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.

The department offers field endorsements in Art, Language Arts, Mathematics, Science, and Social Science. Subject endorsements are offered in English, French, History, Journalism, Religious Education and Spanish.

EDU 170	Diversity and Justice in Education	3
EDU 208	Understanding and Serving Diverse Populations in Education	3
EDU 210	Child And Adolescent Development	3
EDU 341	General Methods In Secondary Teaching	3
EDU 342	Technology Laboratory In Secondary Education	1
EDU 525	Procedures for Including Students with Mild/Moderate Disabilities in the Regular Classroom	3
EDU 548	Teaching Reading In Content Areas In Middle And Secondary Schools	3
EDU 575	Action Research in Your Content Area	3
EDU 583	Management Practices For Classroom Teachers	3
EDU 591	Student Teaching <sup>1</sup>	3-14
EDU 593	Student Teaching Seminar <sup>1</sup>	1-2
Total Credits		29-41

<sup>1</sup> See Student Teaching below.

## 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.

## Encuentro Dominicano

Academic Director: Margarita Dubocq

Campus Coordinator:

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 may take 12 to 18 credits in coursework, including: EDP 361 Social Justice in the Dominican Republic, 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 Social Justice in the Dominican Republic employs service-learning pedagogy, with 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.

## Courses

### **EDP 361. Social Justice in the Dominican Republic. 6 credits. FA (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.

## Energy Technology Program

Program Director: Larry Hopp

Program Office: Eppley 119

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 Sustainable Energy Science serves students interested in a science, math and/or engineering career.

## Majors in the Energy Technology Program

### Specific Requirements for Admission to Energy Technology Majors

MTH 245 Calculus I or equivalent.

- B.A., Major in Sustainable Energy (p. 220)
- B.S., Major in Sustainable Energy Science (p. 218)

## Minors in the Energy Technology Program

- Sustainable Energy (p. 221)

## Courses

### **ERG 131. Installation and Maintenance of Photovoltaic Systems. 3 credits.**

Design, installation and maintenance of commercial and residential solar arrays.

### **ERG 132. Convection and Passive Solar Energy Systems. 3 credits.**

Design, installation and maintenance of convection and passive solar heating. 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 157. Contemporary Composition:Energy in Society. 2 credits.**

Energy technology component of an interdisciplinary course on the fundamental principles and applications of energy. A hands-on exploration of the physical laws governing energy, energy production and transfer methods, and personal energy usage, with an emphasis on the interplay between energy, technology, humanity, and the environment. CO: ENG 154.

**ERG 211. Design and Rapid Prototyping Lab I. 1 credit.**

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.

**ERG 212. Design and Rapid Prototyping Lab II. 1 credit.**

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 or CO: MTH 245; CO: JMC 202.

**ERG 213. Three Dimensional Design. 2 credits.**

A hands-on introduction to basic engineering principles, including forces, statics, mechanisms, mechanical systems. Basic design skills will also be explored, including the design process, 2- and 3-dimensional visualization and sketching, dimensioning and tolerances, CAD software, rapid prototyping equipment, and analysis of the environmental impact of designed products.

**ERG 221. Electronics Design. 4 credits.**

A hands-on, project-based introduction to basic electronics design through the use of microcontrollers. Students learn about the behavior of electricity, how to use basic electronics components, and how to design systems capable of interacting with the physical world using both hardware and software. P: ERG 213.

**ERG 241. Introduction to Energy Transfer. 3 credits.**

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 credits.**

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 credits.**

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.

**ERG 311. Design and Rapid Prototyping Lab III. 1 credit.**

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 credit.**

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 351. Energy Policy. 3 credits.**

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 credits.**

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: PHY 212 or PHY 221; ERG 131 or ERG 132 or ERG 213; ERG 591; ERG 157 or PHY 157.

**ERG 493. Directed Independent Readings. 1-3 credits.**

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. May be repeated up to 6 credits. P: IC.

**ERG 495. Directed Independent Study. 1-3 credits.**

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. May be repeated up to 6 credits. P: IC.

**ERG 497. Directed Independent Research. 1-3 credits.**

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. May be repeated up to 6 credits. P: IC.

**ERG 520. Introduction to Solar Energy. 3 credits.**

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 or graduate standing.

**ERG 521. Introduction to Photovoltaic Materials. 3 credits.**

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 credits.**

This course is designed for students with a major in Energy Technology. Students will engage in weekly topical reading, research and class discussion, culminating in a community-based grant writing project. P: Jr. stdg.

**ERG 581. Energy Innovation Project I. 3 credits.**

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 241 or PHY 212 or PHY 221 or graduate standing.

**ERG 582. Energy Innovation Project II. 3 credits.**

Second 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 581.

**ERG 591. Seminar in Engineering. 1-3 credits. (Same as PHY 591)**

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.

**ERG 595. Special Topics in Energy Studies. 1-3 credits.**

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 credits.**

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.

## B.S., Major in Sustainable Energy Science

### B. S., Major in Sustainable Energy Science Requirements: 56-64 credits

(up to 18 credits satisfy specific Magis Core Requirements)

#### Introductory Energy Course 2-3

ERG 157	Contemporary Composition:Energy in Society
or PHY 157	Sustainable Energy

#### Introductory Applied Science/Design Courses 4

Minimum 4 credits from the following:

ERG 131	Installation and Maintenance of Photovoltaic Systems
ERG 132	Convection and Passive Solar Energy Systems
ERG 213	Three Dimensional Design
PHY 195	Selected Topics in Physics

#### Mathematics Foundation Courses 3-6

One of the following options:

Option 1:

MTH 349	Modeling the Physical World II	
Option 2:		
MTH 347	Calculus III	
Plus one of the following:		
CHM 532	Mathematical Concepts In Chemistry	
MTH 545	Differential Equations	
PHY 551	Mathematical Physics	
<b>Physics Foundation Course</b>		<b>3</b>
PHY 212	General Physics II	
or PHY 222	Advanced General Physics II:Modeling the Physical World	
<b>Statistics Course</b>		<b>3-4</b>
ANT 314	Statistics for the Social Sciences	
or SOC 314	Statistics for the Social Sciences	
ERG 301	Modeling Electrical Load and Yield	
MTH 562	Mathematical Statistics II	
HAP 520	Statistical Methods for Public Administration and Policy Analysis	
or PLS 520	Statistical Methods for Public Administration and Policy Analysis	
<b>Communication and Organizational Skills Courses</b>		
ERG 591	Seminar in Engineering	1
or PHY 591	Seminar in Engineering	
And take minimum 3 credits from the following:		<b>3</b>
COM 320	Leadership: Theories, Styles, And Skills	
ENG 154	Contemporary Composition:Writing About Energy	
ENG 315	Technical And Professional Writing	
SOC 316	Qualitative Methods In The Social Sciences	
<b>Energy Transfer Course</b>		<b>3</b>
ATS 510	Introduction to Physical Meteorology	
CHM 445	Chemical Thermodynamics	
ERG 241	Introduction to Energy Transfer	
PHY 541	Thermodynamics And Statistical Mechanics	
<b>Economic, Political, and Legal Considerations Course</b>		<b>3</b>
BUS 201	Legal Environment of Business	
ERG 351	Energy Policy	
EVS 353	Environmental Economics	
EVS 333	Environmental Politics And Policy	
or PLS 333	Environmental Politics And Policy	
<b>Sustainability Courses</b>		<b>6</b>
ANT 112	Introduction to Anthropology: Culture, Energy and Sustainability	
ANT 355	Environment and Society: Sociological Perspectives	
or EVS 355	Environment and Society: Sociological Perspectives	
or SOC 355	Environment and Society: Sociological Perspectives	

ANT 424	Sustainability and Rural America	
PHL 255	Energy, Ethics and Environment	
THL 336	Divine Providence, Catholic Social Teaching, and the Problem of Climate Change	
<b>Applied Energy Science Experience Course</b>		<b>3</b>
ERG 361	Internship	
ERG 521	Introduction to Photovoltaic Materials	
PHY 561	Nuclear Physics	
<b>Analytical Energy Science Experience Courses</b>		<b>4</b>
CHM 466	Instrumental Analysis Laboratory	
CHM 515	Green Chemistry Laboratory	
ERG 251	History and Technology in the Modern World	
ERG 497	Directed Independent Research	
ERG 520	Introduction to Solar Energy	
PHY 563	High Energy Nuclear Physics	
PHY 581	Advanced Laboratory I	
PHY 582	Advanced Laboratory II	
<b>Advanced Energy Project Courses</b>		
ERG 581	Energy Innovation Project I	3
ERG 582	Energy Innovation Project II	3
<b>Electives - 12 hours from approved list of courses in the disciplines of ATS, BIO, CHM, CSC, ERG, EVS, HRS, MTH, PHY, STA.</b> <sup>1</sup>		<b>12</b>
Total Credits		56-61

<sup>1</sup> Twelve credits of pre-approved engineering work can be used towards the elective requirement. For complete list of electives, please visit [energy.creighton.edu](http://energy.creighton.edu).

## B.A., Major in Sustainable Energy

### B.A., Major in Sustainable Energy Requirements: 63-64 credits

(up to 18 credits satisfy specific Magis Core Requirements)

<b>Introductory Energy Courses</b>		<b>2-3</b>
ERG 157	Contemporary Composition: Energy in Society	
or PHY 157	Sustainable Energy	
<b>Introductory Design Course</b>		<b>2</b>
ERG 213	Three Dimensional Design	
<b>Sustainable Courses</b>		
ANT 112	Introduction to Anthropology: Culture, Energy and Sustainability	3
ANT 355	Environment and Society: Sociological Perspectives	3
or SOC 355	Environment and Society: Sociological Perspectives	

or EVS 355	Environment and Society: Sociological Perspectives	
PHL 255	Energy, Ethics and Environment	3
THL 336	Divine Providence, Catholic Social Teaching, and the Problem of Climate Change	3
<b>Economic, Political, and Legal Considerations Courses</b>		
ERG 351	Energy Policy	3
ERG 551	Grants and Funding for Sustainable Technology	3
<b>Energy Science Experience Courses</b>		
ERG 241	Introduction to Energy Transfer	3
ERG 251	History and Technology in the Modern World	2
ERG 301	Modeling Electrical Load and Yield	3
ERG 361	Internship	3
ERG 520	Introduction to Solar Energy	3
HIS 110	History and Technology in the Modern World	3
<b>Advanced Energy Project Courses</b>		
ERG 581	Energy Innovation Project I	3
ERG 582	Energy Innovation Project II	3
<b>Electives - A minimum of 18 credits 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.</b>		18
<sup>1</sup>		
Total Credits		63-64

<sup>1</sup> For complete list of electives, please visit [energy.creighton.edu](http://energy.creighton.edu)

## Sustainable Energy Minor

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

### Minor in Sustainable Energy Requirements: 18 Credits

<b>Introductory Energy Course</b>		2-3
PHY 157	Sustainable Energy	
or PHY 157	Sustainable Energy	
<b>Introductory Energy Science Course</b>		3
ERG 131	Installation and Maintenance of Photovoltaic Systems	
ERG 132	Convection and Passive Solar Energy Systems	
ERG 213	Three Dimensional Design	
<b>Electives - Select an additional 12-13 credits (to total 18 for the minor), including at least 6 credits at the 300 level or above from the following:</b>		12-13
ANT 112	Introduction to Anthropology: Culture, Energy and Sustainability	
ENG 154	Contemporary Composition: Writing About Energy	
ERG 157	Contemporary Composition: Energy in Society	

ERG 131	Installation and Maintenance of Photovoltaic Systems
ERG 132	Convection and Passive Solar Energy Systems
ERG 213	Three Dimensional Design
ERG 241	Introduction to Energy Transfer
ERG 251	History and Technology in the Modern World
ERG 301	Modeling Electrical Load and Yield
ERG 351	Energy Policy
ERG 361	Internship
ERG 493	Directed Independent Readings
ERG 495	Directed Independent Study
ERG 497	Directed Independent Research
ERG 520	Introduction to Solar Energy
ERG 521	Introduction to Photovoltaic Materials
ERG 551	Grants and Funding for Sustainable Technology
ERG 581	Energy Innovation Project I
ERG 582	Energy Innovation Project II
ERG 595	Special Topics in Energy Studies
ERG 597	Computer Models for Short Term Weather Forecasting
HIS 110	History and Technology in the Modern World
MTH 249	Modeling the Physical World I
PHL 255	Energy, Ethics and Environment
PHY 157	Sustainable Energy
PHY 213	General Physics for the Physical Sciences I
PHY 221	Advanced General Physics I:Modeling the Physical World
PHY 591	Seminar in Engineering
THL 336	Divine Providence, Catholic Social Teaching, and the Problem of Climate Change

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Total Credits

17-19

## English

Chair: Robert Whipple, Jr.

Department Office: Creighton Hall, 134A

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.

## Majors in English

### Specific Requirements for Admission to the English Major

Completion of ENG 120 World Literature I, ENG 121 World Literature II, and ENG 150 Rhetoric and Composition with a grade of "C" or better. Students who wish to apply to the Creative Writing Specialization: Completion of ENG 300 Introduction To Creative Writing with a grade of "B" or better or permission of the Director of Creative Writing.

- B.A., Major in English (p. 232)

## Minors in English

- English (p. 236)
- Film Studies (p. 236)

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 the College of Professional Studies

This department offers the following certificate program to students in the College of Professional Studies:

- Creative Writing (p. 613)

## Courses

### **ENG 120. World Literature I. 3 credits. FA, SP (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 credits. FA, SP**

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 130. Creative Writing. 3 credits.**

This course engages students in the care and feeding of the imagination through the practice of creative writing. In addition to writing a number of exercises, as well as more developed and revised assignments, students will read and analyze examples of creative writing in the different genres.

**ENG 150. Contemporary Composition:College Composition. 3 credits. FA, SP**

This course engages students in a variety of writing tasks to prepare them for writing in college as well as post-college and life situations. Students will analyze and construct a variety of texts, using appropriate technologies.

**ENG 151. Design and Rapid Prototyping Lab I. 1 credit.**

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. For ERG students only.

**ENG 152. Design and Rapid Prototyping Lab III. 1 credit.**

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. For ERG students only.

**ENG 153. Design and Rapid Prototyping Lab IV. 1 credit.**

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 154. Contemporary Composition:Writing About Energy. 3 credits.**

Expository, persuasive, and analytical writing for various audiences and purposes, with a thematic focus on energy and sustainability. CO: While this course is not restricted to Energy Technology (ERG) major or minors, ERG major/minor students must take ERG 157 in the same semester as ENG 154. There is no co-requisite for non-ERG students.

**ENG 155. Contemporary Composition:Cortina Composition. 3 credits.**

This course offers Cortina students the academic reading, writing and speaking skills necessary for growing and learning as global citizens. To synergize their experiences living in community, working in service organizations, and developing as academic writers, students will analyze and construct arguments about the relationship between justice and language use.

**ENG 157. Contemporary Composition:Advocacy and Knowledge. 3 credits.**

This course will explore how knowledge is socially constructed via scholarly practice and online participation and, further, how such knowledge can be leveraged for democratic participation. The course will consist of four units, all of which will ask students to write reflectively and publicly in several genres and media.

**ENG 170. Literature in Life:Literature Engaging Life. 3 credits.**

Through the study of the novel in the U.S., this course encourages the development of students' engagement with core principles of Jesuit education: to engage thoughtfully and critically with the notion of the meaning of human dignity, "as articulated within the Catholic, Jesuit, and other intellectual traditions and how human dignity is influenced by systems of social differentiation and by relative power and privilege." The course also carries a significant communication/speaking component linked to "Communicating Critical Issues." CO: COM 101.

**ENG 171. Literature in Life: Literary Autobiography. 3 credits.**

Autobiographies, from Benjamin Franklin to Holocaust memoirs, provide insight into how we experience meaningfulness and understand human dignity. This course will explore those core principles of a Jesuit education through our thoughtful and critical autobiographical research projects with written, oral and multimedia components. CO: COM 101.

**ENG 172. Race and Identity. 3 credits.**

An examination of how power and privilege are tied to issues of race. In their papers, oral presentations, class discussion, students will articulate their perception of race, prejudice, and discrimination. This course includes a mandatory service component. CO: COM 101.

**ENG 173. Anchors Aweigh! Transatlantic Travels in Literature. 3 credits.**

This course explores a variety of historic and literary texts that deal with connections between the Old World and the New World from a transatlantic perspective. It also considers how ideas circulate around the Atlantic, and how this circulation influences the texts produced in the lands that bound it. CO: COM 101.

**ENG 201. Interpreting Texts. 3 credits. FA, SP**

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 credits. FA, SP**

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, 121, 150.

**ENG 251. Advanced Composition. 3 credits. OD**

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.

**ENG 300. Introduction To Creative Writing. 3 credits. FA, SP**

Introductory practice in narrative and poetic writing. P: ENG 120, ENG 121 and ENG 150 or equivalent.

**ENG 301. Creative Writing: Narrative Forms. 3 credits. FA**

Theory and practice of narrative fiction. P: ENG 300 or consent of Director of Creative Writing. P: ENG 120, ENG 121 and ENG 150 or equivalent.

**ENG 302. Creative Writing: Poetic Forms. 3 credits. SP**

Theory and practice of the poem. P: ENG 300 or consent of Director of Creative Writing. P: ENG 120, ENG 121 and ENG 150 or equivalent.

**ENG 307. Introduction to American Studies. 3 credits. FA (Same as AMS 307 and 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: Soph. stdg.

**ENG 308. Theories and Methods in American Studies. 3 credits. SP (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.

**ENG 311. Ethics And The Use Of Rhetoric. 3 credits. (Same as COM 311)**

Survey of the major works on rhetoric that treat ethics from the time of Plato to the Moderns. P: ENG 120, 121 and 150 or equivalent; Jr. stdg.

**ENG 312. Mass Media and Modern Culture. 3 credits. SP (Same as AMS 312, COM 312)**

Examination of the role of film, television, and media in American life. P: Jr. stdg.

**ENG 313. The Essay: Critical and Developmental Reading. 3 credits. OD**

Critical reading of nonfictional prose concentrating on the logic, organization, style, and vocabulary of essays. Especially recommended for pre-law students. P: ENG 120, ENG 121 and ENG 150 or equivalent.

**ENG 314. Explorations of the Essay. 3 credits. OD**

This course invites students to both study and practice the personal essay, examining this category often called "creative nonfiction" or the "fourth genre." As both writers and readers, we will consider how identity is represented in our own and others' texts. P: ENG 120, ENG 121, ENG 150 or equivalent.

**ENG 315. Technical And Professional Writing. 3 credits. OD**

Writing in and with technology; patterns of reports and correspondence; professional style and structure. P: ENG 120, ENG 121, ENG 150 or equivalent.

**ENG 317. Composition Theory And Practice. 3 credits.**

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. P: ENG 120, ENG 121, ENG 150 or equivalent.

**ENG 329. American Literature/American Identity. 3 credits. 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. P: ENG 120, ENG 121, ENG 150 or equivalent.

**ENG 330. Introduction To Irish Literature. 3 credits.**

Survey of Irish literature from its beginnings.

**ENG 340. English Literature I: Medieval/Early Renaissance. 3 credits. SP**

An historical survey of English literature to 1600. P: ENG 120, ENG 121, ENG 150 or equivalent.

**ENG 341. English Literature II: Late Renaissance/Neo-Classical. 3 credits. FA**

An historical survey of English literature between 1600 and 1800. P: ENG 120, ENG 121, ENG 150 or equivalent.

**ENG 342. English Literature III: Romantic/Victorian. 3 credits. SP**

An historical survey of English literature between 1800 and 1914. P: ENG 120, ENG 121, ENG 150 or equivalent.

**ENG 350. American Literature I: Beginning To Civil War. 3 credits. SP (Same as AMS 350)**

An historical survey of American Literature from its beginning to 1860. P: ENG 120, ENG 121, ENG 150 or equivalent.

**ENG 351. American Literature II: 1860-1914. 3 credits. FA**

An historical survey of American literature from 1860 to 1914. P: ENG 120, ENG 121, ENG 150 or equivalent.

**ENG 352. English And American Literature: 1914 To The Present. 3 credits. FA**

An historical survey of English and American writers from 1914 to the present. P: ENG 120, ENG 121, ENG 150 or equivalent.

**ENG 353. Introduction to Native American Literature. 3 credits. (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, ENG 121, ENG 150.

**ENG 371. American Literature: Vision And Reality. 3 credits. OD**

Values and ideals in American literature from the Seventeenth Century to the present. P: ENG 120, ENG 121, ENG 150 or equivalent.

**ENG 372. Western Literature of the United States. 3 credits.**

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. P: ENG 120, ENG 121, ENG 150 or equivalent.

**ENG 380. History And Criticism Of Cinema. 3 credits. FA (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. P: ENG 120, ENG 121, ENG 150 or equivalent.

**ENG 381. Literature and the Environment. 3 credits. 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. P: ENG 120, ENG 121, ENG 150 or equivalent.

**ENG 382. History and Future of the Book. 3 credits.**

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 or equivalent.

**ENG 389. The Roaring Twenties. 3 credits. OD (Same as AMS 389)**

Representative American authors and works from the 1920's. P: ENG 120, 121, 150 or equivalent and Jr. stdg.

**ENG 390. Introduction To African Literature. 3 credits. FA (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. P: ENG 120, ENG 121, ENG 150 or equivalent.

**ENG 393. African-American Literature. 3 credits. SP (Same as AMS 393, BKS 393)**

A survey of representative African American literature from its inception to the present. The particular representative authors and genres and the historical focus of the course may differ each semester. P: ENG 120, ENG 121, ENG 150 or equivalent.

**ENG 398. Literature Of Francophone Africa. 3 credits. 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. P: ENG 120, ENG 121, ENG 150 or equivalent.

**ENG 403. Seminar in Creative Writing. 3 credits. FA, SP**

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 120, 121, 150 or equivalent; ENG 301 or 302 or consent of the Director of the Creative Writing Program.

**ENG 404. Screenwriting. 3 credits. 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 120, ENG 121, ENG 150 or equivalent; and ENG 300 or IC.

**ENG 405. The Thirties. 3 credits. OD**

Intensive study of the literature of the Depression and the New Deal. P: ENG 120, ENG 121, ENG 150 or equivalent. and Jr. stdg.

**ENG 408. Chaucer. 3 credits. OD**

Artistic accomplishments of Geoffrey Chaucer, with particular emphasis on *The Canterbury Tales*. P: ENG 120, ENG 121, ENG 150; Jr. stdg. or IC.

**ENG 409. Shakespeare. 3 credits.**

Survey of Shakespeare's background; dramatic analysis of Shakespearean plays. P: ENG 120, ENG 121, ENG 150; Jr. stdg. or IC.

**ENG 410. Women in Literature. 3 credits. OD (Same as WGS 410)**

Literary works by and about women. P: ENG 120, 121, 150 or equivalent; Jr. stdg.

**ENG 411. Milton. 3 credits. OD**

The mind, art, and historical significance of Milton as revealed in his major poetry and prose. P: ENG 120, ENG 121, ENG 150 or equivalent; Jr. stdg. or IC.

**ENG 412. Studies in Major Authors. 3 credits. FA, SP**

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: ENG 120, ENG 121, ENG 150 or equivalent; Jr. stdg. or IC.

**ENG 420. Utopian Literature. 3 credits. OD**

Examination of utopian models and ideals in selected literary classics, including anti-utopian literature. P: ENG 120, ENG 121, ENG 150 or equivalent; and Jr. stdg.

**ENG 421. History of the English Language. 3 credits.**

Historical approach to the study of the English language from Old English to Modern English. P: ENG 120, ENG 121, ENG 150; Jr. stdg. or IC.

**ENG 422. Introduction to Linguistic Studies. 3 credits. OD**

Survey of the history of the English language and an examination of the structure of modern English grammars. P: ENG 120, ENG 121, ENG 150 or equivalent; and Jr. stdg.

**ENG 425. Popular Literature. 3 credits. OD**

Examination of popular literary forms: detective fiction, science fiction, fantasy, best-sellers, gothic/contemporary romance, western, spy-thriller, horror/supernatural. P: ENG 120, ENG 121, ENG 150 or equivalent.

**ENG 426. Canadian Literature. 3 credits. OD**

Study of the fiction and poetry of major Canadian writers. P: ENG 120, ENG 121, ENG 150 or equivalent; and Jr. stdg.

**ENG 430. Studies in Irish Literature. 3 credits.**

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 120, 121, 150 or equivalent; ENG 330 or equiv.; and Jr. stdg.

**ENG 435. Literature, Philosophy, And Economics: Critical Representations Of Commercial Life. 3 credits. 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: ENG 120, ENG 121, ENG 150 or equivalent; and Sr. stdg.

**ENG 438. Literacy And Community: Reading And Writing Toward Social Change. 3 credits. (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: ENG 120, ENG 121, ENG 150 or equivalent; and Sr. stdg.

**ENG 439. Literacy And Technology: How Technology Shapes Cultural Literacy. 3 credits. 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. or IC.

**ENG 440. Introduction to Green Cultural Studies. 3 credits.**

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: ENG 120, ENG 121, ENG 150 or equivalent.

**ENG 442. 18th and/or 19th Century British Novel. 3 credits. OD**

Study of the British novel from Richardson and Defoe to Thomas Hardy. P: ENG 120, ENG 121, ENG 150 or equivalent; and Jr. stdg.

**ENG 443. Modern British Novel. 3 credits. 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: ENG 120, ENG 121, ENG 150 or equivalent; and Jr. stdg.

**ENG 444. Modern British Poetry. 3 credits. OD**

A study of British poetry from 1900 to the present. Eliot, Hardy, Housman, Lawrence, and others will be considered. P: ENG 120, ENG 121, ENG 150 or equivalent; and Jr. stdg.

**ENG 450. Contemporary British Literature. 3 credits. OD**

A study of post World War II British Literature. P: ENG 120, ENG 121, ENG 150; Jr. stdg.

**ENG 451. Modern Novel. 3 credits. OD**

Selected studies in modern long fiction. P: ENG 120, ENG 121, ENG 150 or equivalent; and Jr. stdg.

**ENG 452. Modern Drama. 3 credits. OD**

Study of modern dramatists and dramatic techniques from Ibsen to Ionesco. P: ENG 120, ENG 121, ENG 150 or equivalent; and Jr. stdg.

**ENG 453. Modern Poetry. 3 credits. OD**

Selected studies in modern poetry. P: ENG 120, ENG 121, ENG 150 or equivalent; and Jr. stdg.

**ENG 460. Satire. 3 credits. 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: ENG 120, ENG 121, ENG 150 or equivalent; and Jr. stdg. or IC.

**ENG 461. Comedy. 3 credits. OD**

Comic theory; varieties of comedy; the comic spirit as an essentially artistic and moral viewpoint. P: ENG 120, ENG 121, ENG 150 or equivalent; and Jr. stdg.

**ENG 469. Modern American Poetry. 3 credits. OD**

A study of 20th century American poetry. P: ENG 120, ENG 121, ENG 150 or equivalent; and Jr. stdg.

**ENG 470. Seminar in Film Studies. 3 credits. 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. P: ENG 120, ENG 121, ENG 150 or equivalent.

**ENG 471. Modern American Drama. 3 credits. OD**

Study of modern American drama. P: ENG 120, ENG 121, ENG 150 or equivalent; and Jr. stdg.

**ENG 472. Alternative Discourse in the Academy. 3 credits.**

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, ENG 121, ENG 150.

**ENG 473. 19th-Century American Novel. 3 credits. OD**

Study of selected American long fiction from Brown to James. P: ENG 120, ENG 121, ENG 150 or equivalent; and Jr. stdg.

**ENG 474. Modern American Novel. 3 credits. OD**

A study of the 20th Century American novel. P: ENG 120, ENG 121, ENG 150 or equivalent; and Jr. stdg.

**ENG 475. Contemporary American Literature. 3 credits. OD**

Study of principal American writings of the post-World War II era. P: ENG 120, ENG 121, ENG 150 or equivalent; and Jr. stdg.

**ENG 476. Writing and Working for Justice. 3 credits.**

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, ENG 121 and ENG 150.

**ENG 477. The Elements of Style: Form and Structure in Writing. 3 credits. OD**

Study of the modes and strategies of contemporary prose discourse; includes practice in rhetorical analysis. P: ENG 120, ENG 121, ENG 150 or equivalent; and Jr. stdg.

**ENG 479. Creative Writing Internship. 1-3 credits. FA, SP**

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 120, ENG 121, ENG 150 or equivalent; and ENG 301 or ENG 302 or IC.

**ENG 480. Senior Seminar I: History Of Literary Criticism. 3 credits. OD**

A consideration of critical theory and practice from the ancient Greeks to the present. P: ENG major or minor; Sr. stdg.

**ENG 481. Special Topics in British Literature. 3 credits. 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 120, 121, 150 or equivalent; ENG major or co-major; and Sr. stdg.

**ENG 482. Special Topics in American Literature. 3 credits. 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 120, 121, 150 or equivalent; ENG major or co-major; and Sr. stdg.

**ENG 483. Special Topics in Irish Literature. 3 credits. 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 120, 121, 150 or equivalent; ENG major or minor; and Sr. stdg.

**ENG 484. Special Literary Topics. 3 credits. 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 120, 121, 150 or equivalent; ENG major or minor; and Sr. stdg.

**ENG 489. American Prisons: Punish or Reform. 3 credits. (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. P: ENG 120, ENG 121, ENG 150 or equivalent.

**ENG 493. Directed Independent Readings. 1-3 credits. FA, SP, SU**

May be repeated for credit to a limit of six hours. P:ENG 120, ENG 121, ENG 150 or equivalent; Sr. stdg.; and IC.

**ENG 495. Special Literary Problems. 3 credits. OD**

Study of specialized topics or problems that cut across or do not fit within traditional periods or genres. P: ENG 120, ENG 121, ENG 150 or equivalent; and Jr. stdg.

**ENG 499. Senior Project. 3 credits.**

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: ENG 120, ENG 121, ENG 150; Sr. stdg or IC.

## B.A., Major in English

### B. A., Major in English: 36 Credits

#### Major Requirements

ENG 201	Interpreting Texts	3
ENG 202	Entering a Professional Dialogue	3
ENG 499	Senior Project	3

#### Literatures and Histories

Select one of the following:		3
ENG 329	American Literature/American Identity	
ENG 330	Introduction To Irish Literature	
ENG 340	English Literature I: Medieval/Early Renaissance	
ENG 341	English Literature II: Late Renaissance/Neo-Classical	
ENG 342	English Literature III: Romantic/Victorian	
ENG 350	American Literature I: Beginning To Civil War	
ENG 351	American Literature II: 1860-1914	
ENG 352	English And American Literature: 1914 To The Present	
ENG 353	Introduction to Native American Literature	
ENG 372	Western Literature of the United States	
ENG 381	Literature and the Environment	
ENG 389	The Roaring Twenties	
ENG 390	Introduction To African Literature	

ENG 393	African-American Literature
ENG 398	Literature Of Francophone Africa
ENG 405	The Thirties
ENG 410	Women in Literature
ENG 420	Utopian Literature
ENG 425	Popular Literature
ENG 426	Canadian Literature
ENG 430	Studies in Irish Literature
ENG 435	Literature, Philosophy, And Economics: Critical Representations Of Commercial Life
ENG 444	Modern British Poetry
ENG 450	Contemporary British Literature
ENG 475	Contemporary American Literature
ENG 480	Senior Seminar I: History Of Literary Criticism
ENG 481	Special Topics in British Literature
ENG 482	Special Topics in American Literature
ENG 483	Special Topics in Irish Literature
ENG 484	Special Literary Topics

### **Cultures and Identities**

Select one of the following: 3

ENG 312	Mass Media and Modern Culture
ENG 329	American Literature/American Identity
ENG 353	Introduction to Native American Literature
ENG 371	American Literature: Vision And Reality
ENG 390	Introduction To African Literature
ENG 393	African-American Literature
ENG 398	Literature Of Francophone Africa
ENG 410	Women in Literature
ENG 426	Canadian Literature
ENG 440	Introduction to Green Cultural Studies
ENG 476	Writing and Working for Justice
ENG 489	American Prisons: Punish or Reform

### **Writing and Language**

Select one of the following: 3

ENG 251	Advanced Composition
ENG 300	Introduction To Creative Writing
ENG 301	Creative Writing: Narrative Forms
ENG 302	Creative Writing: Poetic Forms
ENG 311	Ethics And The Use Of Rhetoric
ENG 312	Mass Media and Modern Culture
ENG 313	The Essay: Critical and Developmental Reading

ENG 314	Explorations of the Essay
ENG 315	Technical And Professional Writing
ENG 317	Composition Theory And Practice
ENG 403	Seminar in Creative Writing
ENG 404	Screenwriting
ENG 421	History of the English Language
ENG 438	Literacy And Community: Reading And Writing Toward Social Change
ENG 439	Literacy And Technology: How Technology Shapes Cultural Literacy
ENG 472	Alternative Discourse in the Academy
ENG 476	Writing and Working for Justice
ENG 477	The Elements of Style: Form and Structure in Writing
ENG 479	Creative Writing Internship

Select three credits from one of the following two areas: 3

#### Authors

ENG 408	Chaucer
ENG 409	Shakespeare
ENG 411	Milton
ENG 412	Studies in Major Authors

#### Genres

ENG 301	Creative Writing: Narrative Forms
ENG 302	Creative Writing: Poetic Forms
ENG 312	Mass Media and Modern Culture
ENG 313	The Essay: Critical and Developmental Reading
ENG 314	Explorations of the Essay
ENG 315	Technical And Professional Writing
ENG 380	History And Criticism Of Cinema
ENG 420	Utopian Literature
ENG 425	Popular Literature
ENG 442	18th and/or 19th Century British Novel
ENG 443	Modern British Novel
ENG 444	Modern British Poetry
ENG 451	Modern Novel
ENG 452	Modern Drama
ENG 453	Modern Poetry
ENG 460	Satire
ENG 461	Comedy
ENG 469	Modern American Poetry
ENG 470	Seminar in Film Studies
ENG 471	Modern American Drama
ENG 473	19th-Century American Novel
ENG 474	Modern American Novel

ENG 475 Contemporary American Literature

**Other Requirements:** 15

Additional 15 credits from ENG courses numbered 300 or above. Students may not use a single course to satisfy more than one requirement.

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Total Credits 36

## Specializations

As an alternative to the 15 additional credits of ENG courses, students may specialize in one of the following areas of literature by taking 15 credits as listed.

### Specialization in American Literature

ENG 350 American Literature I: Beginning To Civil War 3

ENG 351 American Literature II: 1860-1914 3

ENG 352 English And American Literature: 1914 To The Present 3

Select one of the following: 3

ENG 372 Western Literature of the United States

ENG 393 African-American Literature

ENG 412 Studies in Major Authors

ENG 482 Special Topics in American Literature

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

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Total Credits 15

### Specialization in British Literature

ENG 340 English Literature I: Medieval/Early Renaissance 3

ENG 341 English Literature II: Late Renaissance/Neo-Classical 3

ENG 342 English Literature III: Romantic/Victorian 3

Select one of the following: 3

ENG 409 Shakespeare

ENG 411 Milton

ENG 412 Studies in Major Authors

ENG 481 Special Topics in British Literature

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

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Total Credits 15

### Specialization in Creative Writing

ENG 300 Introduction To Creative Writing 3

ENG 301 Creative Writing: Narrative Forms 3

ENG 302 Creative Writing: Poetic Forms 3

ENG 403 Seminar in Creative Writing 3

Three additional credits from ENG courses numbered 300 or above 3

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Total Credits 15

## Specialization in English Education

ENG 300	Introduction To Creative Writing	3
ENG 312	Mass Media and Modern Culture	3
ENG 409	Shakespeare	3
ENG 421	History of the English Language	3
Three additional credits of ENG courses numbered 300 or above		3
Total Credits		15

## Specialization in Rhetoric and Composition

Select one of the following:		3
ENG 312	Mass Media and Modern Culture	
ENG 380	History And Criticism Of Cinema	
Select one of the following:		3
ENG 251	Advanced Composition	
ENG 314	Explorations of the Essay	
ENG 315	Technical And Professional Writing	
ENG 439	Literacy And Technology: How Technology Shapes Cultural Literacy	
Select one of the following:		3
ENG 317	Composition Theory And Practice	
ENG 438	Literacy And Community: Reading And Writing Toward Social Change	
ENG 472	Alternative Discourse in the Academy	
Six additional credits from ENG courses numbered 300 or above		6
Total Credits		15

## English Minor

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.

### Minor in English Requirements: 18 Credits

ENG 201	Interpreting Texts	3
ENG 202	Entering a Professional Dialogue	3
Twelve additional credits from ENG numbered 300 or above		12
Total Credits		18

## Film Studies Minor

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

## Minor in Film Studies Requirements: 18 Credits

ART/COM/ENG 380	History And Criticism Of Cinema	3
ENG 300	Introduction To Creative Writing	3
Select twelve credits from the following:		12
ENG 301	Creative Writing: Narrative Forms	
ENG 403	Seminar in Creative Writing	
ENG 404	Screenwriting	
COM/ENG 470	Seminar in Film Studies	
THR 428	Film and the Fine Arts	
GDE 374	Digital Video	
FRN 572	French Cinema	
GER 572	Reading German Films	
MUS 391	Film Music	
SPN 571	Latin American Film	
PHL 434	Philosophy Of East Asian Literature And Film	
SPN 570	Contemporary Peninsular Film	
Total Credits		18

## Environmental Sciences

Program Director: Mary Ann Vinton

Program Office: Hixson-Lied Science Building, Room 448

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.

## Majors in Environmental Sciences

### Specific Requirements for Admission to the Environmental Science Major

Successful completion of ATS 113 Introduction To Atmospheric Sciences or BIO 201 General Biology: Organismal and Population or CHM 203 General Chemistry I and CHM 204 General Chemistry I Laboratory.

- B.S. Evs., Major in Environmental Science: Global and Environmental Systems Track (p. 246)
- B.S. Evs., Major in Environmental Science: Organismal/Population Ecology Track (p. 247)

- B.S. Evs., Major in Environmental Science: Environmental Policy and Society Track (p. 245)

## Minors in Environmental Sciences

- Environmental Science (p. 249)
- Environmental Policy (p. 248)

## Courses

### **EVS 113. Introduction To Atmospheric Sciences. 3 credits. FA, SP, SU (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 credit. FA, SP, SU (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 301. Social and Cultural Theory. 3 credits.**

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.

### **EVS 307. Demography: World Population Issues. 3 credits. ENY, SP (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 credits. FA (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 credits. SP (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 201/BIO 205 and BIO 202/BIO 206.

### **EVS 341. General Botany. 4 credits. SP (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 201/205 and BIO 202/206.

**EVS 351. Microbiology. 4 credits. FA (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 201/BIO 205 and BIO 202/BIO 206.

**EVS 353. Environmental Economics. 3 credits. 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. P: Jr. stdg.

**EVS 354. Environmental Ethics. 3 credits. 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: Sociological Perspectives. 3 credits. SP (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 credits. 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 credits. (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 credits. SP (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 201/BIO 205 and BIO 202/BIO 206. or CHM 205/CHM 206.

**EVS 401. Biostatistics. 4 credits. 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 201/BIO 205 and BIO 202/BIO 206.

**EVS 424. Sustainability and Rural America. 3 credits. (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 credits. AY, SU (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 438. Natural History Of The Caribbean. 3 credits.**

Study of the natural history of the Caribbean basin in a field setting. Emphasis on the geological history of the islands and the evolution of their endemic biotas. Field trips stressing identification of the local flora and avifauna. Investigation of land use and the resultant effect on the ecology of the region. This course was offered to students in the Semester Abroad Program in the 1994 Spring Semester. Can be taken as independent study by students in future semesters in the Dominican Republic. P: IC and Dean's Office Approval; Jr. or Sr. stdg.

**EVS 443. Environmental Geology. 4 credits. AY, FA (Same as ATS 443)**

An introduction to physical geology designed for environmental science majors. Topics include an examination of rock types, evolution and geological times, soil development and processes, earthquakes and global tectonics. In-class laboratories will be devoted to identification of rock types, soil analysis, and determination of fossil types. P: So. stdg. or IC.

**EVS 449. Animal Physiology. 3 credits.**

A study of the functions of animals from the cellular to the organ-systems level with emphasis on vertebrate systems physiology. 3R, 3L. P: BIO 202/BIO 206 (or BIO 213 and BIO 215) and BIO 201/BIO 205; Jr. stdg.

**EVS 454. Environmental Philosophy. 3 credits. (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 credits. SP (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 459. Environmental Communication. 3 credits. (Same as COM 459, EVS 559, COM 559)**

We experience and understand the natural world through communication, through different channels, and through discourses that have evolved over time. This course interrogates this communication as well as the underlying assumptions that ground such communication. In doing so, we will evaluate the social construction of the environment and environmental issues through media and other communication processes.

**EVS 460. Terrestrial Remote Sensing. 4 credits. OD, SP (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 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.

**EVS 480. Internship In Environmental Sciences. 1-3 credits. FA, SP, SU**

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 credits. FA (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 201/BIO 205 and BIO 202/BIO 206.

**EVS 483. Vertebrate Natural History Lecture. 3 credits. OD, SP, SU (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 201/BIO 205 and BIO 202/BIO 206.

**EVS 484. Vertebrate Natural History Laboratory. 1 credit. SP, SU (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 credits. SP (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 201/BIO 205 and BIO 202/BIO 206.

**EVS 486. Freshwater Ecology Laboratory. 2 credits. SP (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 credits. SP (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 201/BIO 205 and BIO 202/BIO 206.

**EVS 491. Senior Seminar. 1 credit. FA, SP**

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 credits. FA, SP, SU**

Assigned readings in the student's area of interest. Course is only an addition to and not a substitution for any portion of the major requirement. May be repeated to a limit of six hours. P: Jr. stdg.; IC.

**EVS 495. Directed Independent Study. 1-3 credits. FA, SP, SU**

A program of independent study with emphasis on activities other than laboratory or field research. (Examples include library research or special course attendance). Course is only an addition to and not a substitution for any portion of the major requirement. May be repeated to a limit of six hours. P: Jr. stdg.; IC.

**EVS 497. Directed Independent Research. 1-3 credits. FA, SP, SU**

A program of independent study with emphasis on laboratory or field research. Course is only an addition to and not a substitution for any portion of the major requirement. May be repeated to a limit of six hours. P: Jr. stdg.; IC.

**EVS 506. Environmental Chemistry and Natural Resources. 3 credits. 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 credits. SP (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 201/BIO 205 and BIO 202/BIO 206.

**EVS 533. Physical Climatology and Climate Change. 3 credits. FA (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 will be raised. Major topics include effects of CO<sub>2</sub> warming (greenhouse effect), ozone depletion; human-induced desertification; acid rain; urban microclimates. Methods of monitoring these systems will be stressed relative to an increased world-wide need to limit or prevent human-induced climate changes.

**EVS 539. Ecology of Zoonotic Diseases. 3 credits. (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 201/BIO 205 and BIO 202/BIO 206 and one of the following: BIO 351 or BIO 390 or BIO 432 or BIO 481.

**EVS 541. Advanced Topics in Plant Biology. 3 credits. (Same as BIO 541)**

This course focuses on historical and current questions in plant biology. Students will explore the evolution, function, and development of plants from the genetic, cellular, and organismal perspective. Specific topics may include organogenesis, cell differentiation and expansion, hormone function, plant responses to stimuli, and the evolution of plant tissues and organs. P: BIO 201, BIO 202, BIO 205, and either BIO 341, BIO 317, or IC.

**EVS 544. Hydrology. 3 credits. AY, SP (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 545. Plant Diversity and Evolution. 4 credits. ((Same as BIO 545))**

An investigation of the diversity, morphology, and evolution of fossil and living plants. Topics emphasized include the origin of land plants, plant life cycles, evolution of the vascular cylinder, leaf, seed and flower, and the origin of flowering plants. P: BIO 201, BIO 202, BIO 205, and one of BIO 341, BIO 362, BIO 581 or IC.

**EVS 548. Introduction to Solar-Terrestrial Environment. 3 credits.**

Course designed to acquaint the student with the basic phenomenology associated with solar processes and activity, and the impact of these processes upon the earth and its atmosphere. Designed to familiarize the student with the concepts of upper atmospheric energetic processes and their influences upon everyday activities. P: MTH 246 and PHY 212.

**EVS 549. Environmental Physiology. 3 credits. FA (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 credits. 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 credits. FA (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 credits. SP (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 credits. AY, FA (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 559. Environmental Communication. 3 credits. (Same as COM 559)**

We experience and understand the natural world through communication, through different channels, and through discourses that have evolved over time. This course interrogates this communication as well as the underlying assumptions that ground such communication. In doing so, we will evaluate the social construction of the environment and environmental issues through media and other communication processes.

**EVS 561. Entomology. 4 credits. FA (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 201/BIO 205 and BIO 202/BIO 206.

**EVS 566. Climate Theory. 3 credits. 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 credits. ENY, SP (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 credits. FA, SU (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 201/BIO 205 and BIO 202/BIO 206.

**EVS 572. Animal Behavior Laboratory. 2 credits. SP (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 credits. 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 credits. (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 EVS 481 or EVS 485.

**EVS 581. Evolution. 4 credits. FA, SU (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.

## **B.S. Evs., Major in Environmental Science: Environmental Policy and Society Track**

### **B.S. Evs., Major in Environmental Science: Environmental Policy and Society Track Requirements: 45 Credits**

The following courses are required for all tracks. In addition, the students must choose one track.

EVS 113	Introduction To Atmospheric Sciences	3
EVS 114	Introduction To Atmospheric Sciences Laboratory	1
EVS 355	Environment and Society: Sociological Perspectives	3
EVS 390	Environmental Science	3
EVS 491	Senior Seminar (Students must take this course twice.)	2
EVS 533	Physical Climatology and Climate Change	3
BIO 202 & BIO 206	General Biology: Cellular and Molecular and General Biology: Cellular and Molecular	4
BIO 201 & BIO 205	General Biology: Organismal and Population and General Biology: Organismal and Population Lab	4
CHM 203	General Chemistry I	3
CHM 204	General Chemistry I Laboratory	1
CHM 205	General Chemistry II	3
CHM 206	General Chemistry II Laboratory	1
Total Credits		31

**Environmental Policy and Society Track**

14

Select fourteen credits from the following; at least 3 credits from Group B:

**Group A:**

EVS 307	Demography: World Population Issues
EVS 333	Environmental Politics And Policy
EVS 353	Environmental Economics
EVS 354	Environmental Ethics
EVS 355	Environment and Society: Sociological Perspectives
EVS 454	Environmental Philosophy
EVS 455	Food, Society and Environment
EVS 424	Sustainability and Rural America
EVS 459	Environmental Communication

**Group B:**

EVS 385	The Ecology, Geography and Health of Lakes
EVS 443	Environmental Geology
EVS 481	Terrestrial Ecology
EVS 506	Environmental Chemistry and Natural Resources
EVS 523	Environmental Toxicology
EVS 539	Ecology of Zoonotic Diseases
EVS 580	Current Topics in Ecology

Total Credits

14

## **B.S. Evs., Major in Environmental Science: Global and Environmental Systems Track**

### **B.S. Evs., Major in Environmental Science: Global and Environmental Systems Track Requirements: 45 Credits**

The following courses are required for all tracks. In addition, the students must choose one track.

EVS 113	Introduction To Atmospheric Sciences	3
EVS 114	Introduction To Atmospheric Sciences Laboratory	1
EVS 355	Environment and Society: Sociological Perspectives	3
EVS 390	Environmental Science	3
EVS 491	Senior Seminar (Students must take this course twice.)	2
EVS 533	Physical Climatology and Climate Change	3
BIO 202 & BIO 206	General Biology: Cellular and Molecular and General Biology: Cellular and Molecular	4
BIO 201 & BIO 205	General Biology: Organismal and Population and General Biology: Organismal and Population Lab	4
CHM 203	General Chemistry I	3
CHM 204	General Chemistry I Laboratory	1
CHM 205	General Chemistry II	3

CHM 206	General Chemistry II Laboratory	1
Total Credits		31

<b>Global and Environmental Systems Track</b>	<b>14</b>
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Select fourteen credits from the following:

EVS 341	General Botany
EVS 385	The Ecology, Geography and Health of Lakes
EVS 435	Coastal and Estuarine Ecology
EVS 443	Environmental Geology
EVS 481	Terrestrial Ecology
EVS 485	Marine And Freshwater Ecology
EVS 486	Freshwater Ecology Laboratory
EVS 487	Marine Ecology Laboratory
EVS 544	Hydrology
EVS 552	Boundary Layer Meteorology
EVS 553	Tropical Meteorology
EVS 555	Meteorological Remote Sensing
EVS 556	Introduction To Physical Oceanography
EVS 566	Climate Theory
EVS 573	Cloud Physics And Dynamics

Total Credits		14
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## **B.S. Evs., Major in Environmental Science: Organismal/Population Ecology Track**

### **B.S. Evs., Major in Environmental Science: Organismal/Population Ecology Track Requirements: 45 Credits**

The following courses are required for all tracks. In addition, the students must choose one track.

EVS 113	Introduction To Atmospheric Sciences	3
EVS 114	Introduction To Atmospheric Sciences Laboratory	1
EVS 355	Environment and Society: Sociological Perspectives	3
EVS 390	Environmental Science	3
EVS 491	Senior Seminar (Students must take this course twice.)	2
EVS 533	Physical Climatology and Climate Change	3
BIO 202 & BIO 206	General Biology: Cellular and Molecular and General Biology: Cellular and Molecular	4
BIO 201 & BIO 205	General Biology: Organismal and Population and General Biology: Organismal and Population Lab	4
CHM 203	General Chemistry I	3
CHM 204	General Chemistry I Laboratory	1

CHM 205	General Chemistry II	3
CHM 206	General Chemistry II Laboratory	1
Total Credits		31

### **Organismal/Population Ecology Track** 14

Select fourteen credits from the following:

EVS 335	Zoology
EVS 341	General Botany
EVS 351	Microbiology
EVS 385	The Ecology, Geography and Health of Lakes
EVS 435	Coastal and Estuarine Ecology
EVS 443	Environmental Geology
EVS 481	Terrestrial Ecology
EVS 483	Vertebrate Natural History Lecture
EVS 484	Vertebrate Natural History Laboratory
EVS 485	Marine And Freshwater Ecology
EVS 486	Freshwater Ecology Laboratory
EVS 487	Marine Ecology Laboratory
EVS 523	Environmental Toxicology
EVS 539	Ecology of Zoonotic Diseases
EVS 549	Environmental Physiology
EVS 561	Entomology
EVS 571	Animal Behavior
EVS 572	Animal Behavior Laboratory
EVS 580	Current Topics in Ecology
EVS 581	Evolution

Total Credits	14
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MTH 245 Calculus I, PHY 201 General Physics for the Life Sciences and PHY 202 are highly recommended and may be required for students planning on attending specific graduate programs.

## **Environmental Policy Minor**

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.

### **Minor in Environmental Policy Requirements: 18 Credits**

EVS 333	Environmental Politics And Policy	3
EVS 354	Environmental Ethics	3

EVS 355	Environment and Society: Sociological Perspectives	3
Select one of the following:		3-4
ATS 113	Introduction To Atmospheric Sciences	
CHM 105	Introductory Chemistry	
EVS 390	Environmental Science	
EVS 443	Environmental Geology	
PHY 187	Conceptual Physics	
Select one of the following:		4
ATS 113 & ATS 114	Introduction To Atmospheric Sciences and Introduction To Atmospheric Sciences Laboratory	
BIO 202 & BIO 206	General Biology: Cellular and Molecular and General Biology: Cellular and Molecular	
BIO 201 & BIO 205	General Biology: Organismal and Population and General Biology: Organismal and Population Lab	
CHM 203 & CHM 204	General Chemistry I and General Chemistry I Laboratory	
Select one of the following:		3
EVS 307	Demography: World Population Issues	
EVS 454	Environmental Philosophy	
EVS 455	Food, Society and Environment	
EVS 424	Sustainability and Rural America	

Total Credits

19-20

## Environmental Science Minor

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.

### Minor in Environmental Science Requirements: 18 Credits

Select one of the following:		4
ATS 113 & ATS 114	Introduction To Atmospheric Sciences and Introduction To Atmospheric Sciences Laboratory	
BIO 202 & BIO 206	General Biology: Cellular and Molecular and General Biology: Cellular and Molecular	
BIO 201 & BIO 205	General Biology: Organismal and Population and General Biology: Organismal and Population Lab	
CHM 112 & CHM 113	Fundamentals Of Biological Chemistry and Fundamentals Of Chemistry Laboratory	

CHM 203 & CHM 204	General Chemistry I and General Chemistry I Laboratory	
Select fourteen credits from the following: <sup>1</sup>		14
<b>Atmospheric Sciences</b>		
EVS 443	Environmental Geology	
EVS 533	Physical Climatology and Climate Change	
EVS 544	Hydrology	
EVS 553	Tropical Meteorology	
EVS 555	Meteorological Remote Sensing	
EVS 556	Introduction To Physical Oceanography	
<b>Biology</b>		
EVS 335	Zoology	
EVS 341	General Botany	
EVS 385	The Ecology, Geography and Health of Lakes	
EVS 390	Environmental Science	
EVS 435	Coastal and Estuarine Ecology	
EVS 481	Terrestrial Ecology	
EVS 483	Vertebrate Natural History Lecture	
EVS 484	Vertebrate Natural History Laboratory	
EVS 485	Marine And Freshwater Ecology	
EVS 486	Freshwater Ecology Laboratory	
EVS 487	Marine Ecology Laboratory	
EVS 523	Environmental Toxicology	
EVS 549	Environmental Physiology	
<b>Other Courses</b>		
EVS 307	Demography: World Population Issues	
EVS 333	Environmental Politics And Policy	
EVS 354	Environmental Ethics	
EVS 355	Environment and Society: Sociological Perspectives	
EVS 506	Environmental Chemistry and Natural Resources	
EVS 491	Senior Seminar	
EVS 424	Sustainability and Rural America	
Total Credits		18

<sup>1</sup> No more than two courses may be chosen from any group.

## Exercise Science and Pre Health Professions

Chair: Thomas Baechle

Department Office: Kiewit Fitness Center, Room 225

The Department of Exercise Science and Pre Health Professions offers a Bachelor of Science degree with a major in Exercise Science and Pre Health Professions. The Exercise Science and

Pre Health Professions 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 this major also prepares students for national certifications offered by the American College of Sports Medicine and the National Strength and Conditioning Association Certification Commission.

## Major in Exercise Science and Pre Health Professions

### Specific Requirements for Admission to Exercise Science and Pre Health Professions

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 General Chemistry I/CHM 204 General Chemistry I Laboratory or CHM 205 General Chemistry II/CHM 206 General Chemistry II Laboratory and BIO 202 General Biology: Cellular and Molecular/BIO 206 General Biology: Cellular and Molecular or BIO 201 General Biology: Organismal and Population/BIO 205 General Biology: Organismal and Population Lab. Students apply for admission to the major through the College of Arts and Sciences website.

- B.S., Major in Exercise Science and Pre Health Professions (p. 255)

### Courses

#### **EXS 125. First Aid. 2 credits. FA, SP, SU**

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. Personal Weight Training. 1 credit. FA, SP, SU**

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 credits. FA, SP**

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 credit. FA, SP**

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 credit. 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 credit. FA, SP**

Instruction in basic skills, strategies, and rules.

**EXS 157. Intermediate Racquetball. 1 credit. 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 credit. FA, SP**

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 190. Self Defense Tactics. 1 credit.**

Techniques in blocking, striking, and throwing an attacker are taught. Demonstration and discussions on the use of mace, stun gun, firearms, and other weapons are included. Defense to chokes, wrist-grabs, lapel grabs, the hammer lock, bear hug, full nelson and offensive follow-ups are taught. Defenses to club, knife, chain and gun attacks are discussed.

**EXS 192. Beginning Taekwondo. 1 credit.**

Beginning instruction in the martial art of Tae Kwon Do (Karate). Course emphasizes technical execution, discipline, and an insight into the philosophical aspects of Bushido.

**EXS 193. Intermediate Taekwondo. 1 credit.**

An intermediate course of Tae Kwon Do (Karate) designed for men and women who have completed a basic course. Includes advanced blocking, punching, and kicking techniques, combination and breaking techniques, advanced self-defense and sport techniques. P: EXS 192 or IC.

**EXS 194. Beginning Hapkido. 1 credit.**

Beginning instruction in the martial art of Hapkido. Course emphasizes takedowns, throws, restraint, submission and hold techniques, discipline, and the philosophy of Hapkido.

**EXS 195. Introduction To Athletic Training. 3 credits. FA, SP**

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 credits. FA, SP**

Assessment of individualized fitness level and the development of a personal fitness program. Lecture topics include physiological testing protocols, the explanation and evaluation of various forms of exercise, training guidelines for aerobic and anaerobic exercise programs and risk factors associated with cardiovascular disease. Two lectures and two activity sessions per week.

**EXS 305. Therapeutic Modalities. 3 credits. 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, EXS 331 or IC.

**EXS 306. Therapeutic Exercise. 3 credits. 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, EXS 331 or IC.

**EXS 310. Practicum in Exercise Science. 1 credit. FA, SP**

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 DC.

**EXS 320. Human Physiology. 4 credits. FA, SP, SU**

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 202/BIO 206 or BIO 201/BIO 205; CHM 203/CHM 204 or CHM 205/CHM 206; EXS major or IC.

**EXS 331. Human Anatomy. 4 credits. FA, SP, SU**

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 202/BIO 206 or BIO 201/BIO 205; CHM 203/CHM 204 or CHM 205/CHM 206; EXS major or IC.

**EXS 334. Biomechanics. 4 credits. FA, SP**

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 and of the body. P: EXS 331, EXS major, or IC.

**EXS 335. Exercise Physiology. 4 credits. FA, SP**

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 cardio vascular fitness. P: BIO 202/BIO 206 or BIO 201/BIO 205; CHM 203/CHM 204 or CHM 205/CHM 206, EXS 240 and EXS 320 or IC; EXS major.

**EXS 350. Nutrition For Health And Sports Performance. 3 credits. FA, SP**

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 credits. 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 is placed on emergency management. P: EXS 195, EXS 331 or IC.

**EXS 396. Upper Body Evaluation. 3 credits. 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 is placed on emergency management. P: EXS 195, EXS 331 or IC.

**EXS 401. Exercise Prescription. 3 credits. FA, SP**

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 credits. FA, OD, SP**

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 409. Research Topics in Exercise Science. 3 credits.**

The course provides the opportunity for students to conduct research with the assistance of fellow students and the instructor. Students will become directly involved in the review of literature, study design, subject recruitment, data collection, statistical analysis, and manuscript or poster preparation. Department of Exercise Science faculty members will lead lecture/discussion sessions detailing their current research agenda and previous experience. Students will also gain an understanding of the use of equipment and testing/assessment methodologies associated with exercise science research. P: EXS major and EXS 407 or equivalent, or IC.

**EXS 420. Essentials Of Strength And Conditioning. 3 credits. SP**

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 credits. FA, SP**

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 credits. FA, SP**

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 credits. FA, SP, SU**

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 credits. OD**

May not be repeated to a limit of four credits. P: Jr. stdg.; EXS Major; IC.

**EXS 495. Directed Independent Study. 1-4 credits. OD**

May be repeated to a limit of four credits. P: Jr. stdg.; EXS major; IC.

**EXS 497. Directed Independent Research. 1-3 credits. FA, OD, SP**

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.

## **B.S., Major in Exercise Science and Pre Health Professions**

### **B.S., Major in Exercise Science and Pre Health Professions Requirements: 45-47 Credits**

EXS 125	First Aid	2
EXS 142	Personal Weight Training	1
EXS 144	Aerobics	2
EXS 195	Introduction To Athletic Training	3
EXS 240	Designing A Personalized Fitness Program	3
EXS 320	Human Physiology	4
EXS 331	Human Anatomy	4
EXS 334	Biomechanics	3
EXS 335	Exercise Physiology	4
EXS 350	Nutrition For Health And Sports Performance	3
EXS 401	Exercise Prescription	3
EXS 407	Basic Statistics And Research Design	3
EXS 489	Laboratory Methods And Procedures	4
EXS 491	Exercise Leadership And Program Administration	3
EXS 492	Exercise Science Internship	3-5
Total Credits		45-47

## **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

The Department of Fine and Performing Arts offers courses for non-majors and B.A. and B.F.A. degrees in Studio Art, 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.

## Majors in Fine and Performing Arts

- B.A., Major in Art History (p. 282)
- B.A., Major in Studio Art (p. 285)
- B.F.A., Major in Studio Art (p. 290)
- B.A., Major in Music (p. 284)
- B.F.A., Major in Musical Theatre (p. 288)
- B.A., Major in Theatre (p. 288)
- B.F.A., Major in Theatre: Performance Track (p. 291)
- B.F.A., Major in Theatre: Technical Track (p. 292)

## Minors in Fine and Performing Arts

- Studio Art (p. 296)
- Art History (p. 293)
- Dance (p. 294)
- Music (p. 295)
- Theatre (p. 296)

Students who think they may teach Studio Art, Art History or 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.

## Courses

### **ARH 170. Cities and People:Urban Planning and Ethical Decisions. 3 credits.**

This course presents a survey of select cities throughout time and across the globe. Contentious elements of the development of important cities will be analyzed through the lens of social justice and human dignity. Students will see the positive and negative impact of urbanism on human life and consider the causes and remedies of human suffering in terms of urban planning. CO: COM 101.

### **ARH 171. Art Crime. 3 credits.**

This course explores the ways the past is studied, interpreted, presented, and conserved, an increasingly hot topic in today's politicized global environment. Modern political ideologies such as colonialism and nationalism, wars, poverty, and a thriving illicit antiquities market are closely intertwined with how past cultural heritage is collected interpreted, presented, and maintained.

### **ARH 210. History of Western Art and Architecture I. 3 credits.**

This course presents 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 Middle Ages. 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 and Architecture II. 3 credits.**

This course presents a survey of major works of sculpture, architecture, and painting made in the Near East, Europe, and North America from the Renaissance to the present day. Students will 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 credits.**

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 credits.**

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 credits. (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 credits. 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 credits. 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. 3 credits. SP (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 credits. (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. Imaging Christ: The Challenge of Early Christian Art. 3 credits. 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 credits. OD (Same as CNE 365)**

Sculpture, painting and the minor arts of Greece.

**ARH 366. Etruscan and Roman Art. 3 credits. OD (Same as CNE 366, ITA 366)**

Sculpture, painting, and the minor arts of the Etrusco-Roman people.

**ARH 369. Medieval Art and Architecture. 3 credits. (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 credits.**

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 credits. (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. Seventeenth-Century Art and Architecture. 3 credits. (Same as ITA 377)**

The Age of the Baroque was one of the most dynamic in Western history. Absolute monarchssuch 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 credits.**

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 credits. FA, SP**

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 credits. (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. History of American Art and Architecture. 3 credits. (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 credits. (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 credits. (Same as AMS 387, NAS 387)**

Modern Hispanic Art History will survey the painting, sculpture and architecture of Latin America along with some of its Spanish influences, from 1820 to the present. Native American and African influences on Latin American art will be surveyed. Key figures to be studied are: Rivera, Torres-Garcia, Lam, Matta, Kahlo, Varo, Chambi, Salgado, Barragan, Botero, Bravo, Jimenez, etc.

**ARH 390. Nineteenth Century Art. 3 credits.**

A history of the major works of sculpture, architecture, and painting made in 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. Modern European Art, 1900-1945. 3 credits.**

Survey of 20th-century painting, sculpture and architecture in Europe. Focus on Fauvism, Cubism, Expressionism, Dadaism and Surrealism.

**ARH 401. History and Methods of Art History. 3 credits. SP**

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. P: Art History major, Jr. or Sr. stdg; and IC.

**ARH 410. The Lives of Artists in Film. 3 credits.**

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 credits.**

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 credits. (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. stgd. and PHL 250 or THL 250.

**ARH 430. Selected Topics in Ancient Art and Archaeology. 3 credits. 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 credits. (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. History of Architecture and Urbanism. 3 credits. 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 credits.**

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 credits. 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 credits. (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 credits. (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, Zurburan, Velasquez, Goya, Picasso, Rivera, and etc.).

**ARH 468. Native American Art. 3 credits. 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 credits.**

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 credits.**

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 credits.**

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. Summer Art History Seminar. 1-3 credits. SU**

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 Research. 1-3 credits. FA, SP**

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. 1-3 credits. FA, SP**

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 credits. FA, SP**

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.

**ART 104. Elementary School Art. 3 credits. SP**

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 credits. FA, SP**

Basic drawing and basic design. Use of pencil, charcoal, pen, brush, and collage. 6S.

**ART 153. Three Dimensional Foundations I. 3 credits. SP**

This course is an introduction to the use of 3 Dimensional Design art concepts as a means of creative three-dimensional expression in contemporary sculpture making. Through studio practice, project critiques and group reviews students will refine their craft and personal aesthetic within the context of contemporary sculpture.

**ART 154. Figure Sculpture. 3 credits.**

This course is an introduction to the use of the human figure as a means of creative three-dimensional expression, in both traditional and contemporary sculpture making. Through studio practice, project critiques and reviews students will refine their craft and personal aesthetic within the context of Contemporary sculpture.

**ART 155. Welded Metal Sculpture I. 3 credits.**

This introductory course, designed for the non-art major, art minor and art major alike, encompasses the process of welded metal sculpture. Students will explore abstract planar composition and cover the technical processes of welding, metal finishing and steel sculpture. The Elements and Principles of three-dimensional art will be woven into each project.

**ART 156. Bronze Casting Sculpture I. 3 credits.**

This introductory course, designed for the non-art major, art minor and art major alike, encompasses the process of welded metal sculpture. Students will explore abstract planar composition and cover the technical processes of welding, metal finishing and steel sculpture. The Elements and Principles of three-dimensional art will be woven into each project.

**ART 157. Stone Carving I. 3 credits.**

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 credits.**

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 credits. FA, SP, SU**

Handbuilding, throwing, decorating, glazing, and firing of clay. 6S. P or CO: ART 105 for majors; none for others.

**ART 253. Sculpture II. 3 credits. FA, SP, SU**

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 credits.**

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: ART 153 or ART 154 or ART 155 or ART 156 or ART 157.

**ART 255. Welded Metal Sculpture II. 3 credits.**

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: ART 153 or ART 154 or ART 155 or ART 156 or ART 157.

**ART 256. Bronze Casting II. 3 credits.**

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: ART 153 or ART 154 or ART 155 or ART 156 or ART 157.

**ART 257. Stone Carving II. 3 credits.**

This 200 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. A series of small scale stone sculptures will be created. P: ART 153 or ART 154 or ART 155 or ART 156 or ART 157.

**ART 271. Photo Studio I: Beginning Black and White Photography. 3 credits. FA, SP, SU**

Introduction to the use of fine art film photography as a means of expression in traditional photo-mechanical and chemical process making visual images. Critique and evaluation of student work with attention to standards of aesthetics and craft and achievements of historical masters of the medium of fine art still photography. Not open to students enrolling as auditors.

**ART 295. Special Projects. 1-6 credits. FA, SP**

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 credits.**

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 ART 211.

**ART 306. Color: Acrylic and Chalk. 3 credits. FA, SP**

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 credits. FA, SP, SU**

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 credits. FA, SP**

Continuation of ART 311. 6S. P: ART 311.

**ART 321. Life Drawing I. 3 credits. FA, SP**

Drawing from undraped model in a variety of media; some anatomy theory. 6S. P: ART 105.

**ART 322. Life Drawing II. 3 credits. FA, SP**

Continuation of ART 321. 6S. P: ART 321.

**ART 331. Painting I. 3 credits. FA, SP**

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 credits. FA, SP**

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 credits. FA**

Exploration of the process of making color relief prints on paper from wood and linoleum. P: ART 105.

**ART 347. Etching I. 3 credits. FA, SP**

Creating an image on a metal plate which will be printed on paper. 6S. P: ART 105.

**ART 348. Etching II. 3 credits. FA, SP**

Introduction to multiplate color printing. 6S. P: ART 347.

**ART 353. Sculpture III. 3 credits. FA, SP, SU**

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: ART 253 or ART 254 or ART 255 or ART 256 or ART 257.

**ART 359. Creativity, Problem Solving, Goal Reaching. 3 credits.**

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 363. Baroque Art. 3 credits.**

Painting, sculpture and architecture in Europe during the 17th and 18th centuries. Focus on such artists as Rubens, Rembrandt, Velasquez and Bernini.

**ART 371. Photography Studio II. 3 credits. SP, SU**

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 credits. SP, SU**

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 credits. 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 credits. FA**

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 credits. SP**

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 credits. FA, SU (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 credits. 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 credits. 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 credits. SU**

Summer studio concentrating on a specific area of studio art not normally offered during the regular year. Area of concentration varies and is announced in the Summer Bulletin each year. May be repeated for credit to a limit of nine hours. P or CO: ART 105 for Art majors; none for others.

**ART 397. Summer Art History Seminar. 1 credit.**

Summer seminar concentrating on the history and issues of a specific area of art history not normally offered during the regular academic year. The area of concentration varies and is announced in the Summer Bulletin each year. May be repeated for credit to a limit of nine hours. P: ART 219 or IC.

**ART 411. Advanced Ceramics I. 3 credits. FA, SP, SU**

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 credits. FA, SP**

Continuation of ART 411. 6S. P: ART 411.

**ART 421. Life Drawing III. 3 credits. FA, SP**

Continuation of ART 322. 6S. P: ART 322.

**ART 422. Life Drawing IV. 3 credits. FA, SP, SU**

Continuation of ART 421. P: ART 421.

**ART 431. Painting III. 3 credits. FA, SP, SU**

Continuation of ART 332. P: ART 332.

**ART 432. Painting IV. 3 credits. FA, SP, SU**

Continuation of ART 431. P: ART 431.

**ART 446. Glass Casting in the Kiln. 3 credits. OD**

Students learn how to cast glass sculptures and relief forms with the aid of an electric kiln.

**ART 447. Etching III. 3 credits. FA, SP**

Research into new ways of creating and printing. 6S. May be repeated to a limit of six hours. P: ART 348.

**ART 448. Etching IV. 3 credits. FA, SP**

Continuation of ART 447. P: ART 447.

**ART 453. Sculpture IV. 3 credits. FA, SP, SU**

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 credits. OD**

This course is designed to expand on ART 453. Students focus on their own ideas either in metal or other materials. Course goal is to produce a series of artworks based on a theme or subject of choice. Projects will range from figure busts to 6 ft. figure in the classroom studio. Students may elect to work on a large scale hypothetical commission. We will continue with the study of artistic anatomy of the body in motion translating this knowledge into form, structure and gesture. This course is for the major and non-major alike. P. ART 453.

**ART 461. The City of Rome. 3 credits.**

An Architectural, Artistic, and Social Historical Survey of the city of Rome, concentrating on the ancient city but also tracing its development (as appropriate) through modern times. Political History will be covered to the extent needed to provide a framework for the course, but does not overlap with CNE/HIS 404.

**ART 481. Arts Management Internship. 3 credits.**

Placement in area arts organizations on a part-time basis for one semester, witnessing first-hand the nature and business of these organizations. Placement in Omaha area arts organizations such as, the Creighton Art Gallery or Theatre Box Office, Omaha Symphony, Nebraska Shakespeare Festival, or Joslyn Museum. P: ART 480.

**ART 493. Directed Independent Readings. 1-3 credits. FA, SP**

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 credits. FA, SP**

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 credits. FA, SP**

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 credits. FA, SP**

Open to all seniors. Required of B.F.A. candidates. After choosing a thesis adviser, 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.

**DAN 101. Introduction to the Dance. 3 credits. FA, SP**

Dance classes where the student will develop q competence in and appreciation of three techniques at the beginning level: ballet, modern and jazz. Practical classes, lectures, videos, and attendance at dance performances with written responses to the concerts are all requirements.

**DAN 153. Stagecraft. 3 credits. (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 221. Intermediate Modern Dance. 1-2 credits.**

Dance classes where the student will develop a competence in and appreciation of two techniques at the intermediate level: tap and jazz. Practical classes, lectures, videos, and attendance at dance performances with written responses to the concerts are all requirements. May be repeated for a total of four credit hours. P: DAN 101 or IC.

**DAN 231. Intermediate Tap/Jazz. 1-2 credits.**

Dance classes where the student will develop a competence in and appreciation of two techniques at the intermediate level: tap and jazz. Practical classes, lectures, videos, and attendance at dance performances with written responses to the concerts are all requirements. May be repeated for a total of four credit hours. P: DAN 101 or IC.

**DAN 241. Intermediate Ballet. 1-2 credits.**

Dance classes where the student will develop a competence in and appreciation of ballet technique at the intermediate level. Practical classes, lectures, videos, and attendance at dance performances with written responses to the concerts are all requirements. May be repeated for a total of four credit hours. P: DAN 101 or IC.

**DAN 242. Dance Composition & Theory I. 2 credits. FA, SP**

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 credits.**

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 credits. SU**

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 303. Theory Of Teaching Dancing To Children. 2 credits. FA, SP**

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 241 or IC.

**DAN 304. Theory of Teaching Dancing to Children II. 2 credits. FA, SP**

Continuation of DAN 303. Completing the Imperial Society of Teachers of Dance (London) children's syllabus. P: DAN 303 or IC.

**DAN 321. Advanced I Modern Dance. 1-2 credits.**

For the student who only wants to take Modern Dance at the very Advanced Level. May be repeated to a total of four credit hours. P: DAN 221 or IC.

**DAN 331. Advanced I Tap/Jazz. 1-2 credits.**

For the student who only wants to take Jazz/Tap at the very Advanced Level. May be repeated to a total of four credit hours. P: DAN 231 or IC.

**DAN 341. Advanced I Ballet. 1-2 credits.**

For the student who only wants to take Ballet at the very Advanced Level. May be repeated to a total of four credit hours. P: DAN 241 or IC.

**DAN 342. Individual Choreographic Project. 1 credit.**

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 credits. SP (Same as THR 355)**

Fundamentals of electricity, color in light, tools, equipment and practical application of the elements. P: THR 131 or THR 153.

**DAN 383. Summer Session Workshop In Advanced Dance I. 1-3 credits. SU**

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. Production Practicum. 1-2 credits. FA, SP (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, 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 395. Directed Independent Study. 1-3 credits.**

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 credit. SP, SU**

(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 credits. OD**

Supervised teaching to selected children's ballet classes and assigned observation of teaching techniques. P: DAN 303 and DAN 304 or IC.

**DAN 404. Teaching Dance - Practicum II. 2 credits. OD**

Supervised teaching of selected dance classes and assigned observation of teaching techniques. P: DAN 403.

**DAN 421. Advanced II Modern Dance. 1-2 credits.**

For the very advanced student taking Modern class. May be taken up to eight times. P: IC or DAN 321.

**DAN 431. Advanced II Tap/Jazz. 1-2 credits.**

For the very advanced student taking Jazz/Tap class. May be taken up to eight times. P: IC or DAN 331.

**DAN 441. Advanced II Ballet. 1-3 credits.**

For the very Advanced student taking ballet class. May be taken up to a total of eight times. P: IC or DAN 341.

**DAN 483. Summer Session Workshop In Advanced Dance II. 2-5 credits. SU**

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 498. Performance - Fourth Year. 1 credit. SP, SU**

(Required of Dance co-majors). Student required to perform dancing roles in two public dance performances. Required of Dance majors. 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.

**MUS 100. Music Theory I. 2 credits.**

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. CO: MUS 221.

**MUS 101. Music Theory II. 2 credits.**

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. CO: MUS 222.

**MUS 104. Elementary School Music. 3 credits. FA**

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 credits.**

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 credit. FA, SP**

Beginning piano lessons in a group setting. The piano lab is equipped with four electronic pianos with full sized keyboards. No prerequisite is necessary.

**MUS 137. Applied Music I-Flute. 1 credit. OD**

Individual lessons. May be repeated to a limit of two credits. Special fee is charged. Juried examination at the end of each semester.

**MUS 138. Applied Music I-Oboe. 1 credit. OD**

Individual lessons. May be repeated to a limit of two credits. No prerequisite. Special fee is charged. Juried examination at the end of each semester.

**MUS 139. Applied Music I-Clarinet. 1 credit. OD**

Individual lessons. May be repeated to a limit of two credits. No prerequisite. Special fee is charged. Juried examination at the end of each semester.

**MUS 141. Applied Music I-Saxophone. 1 credit. OD**

Individual lessons. May be repeated to a limit of two credits. No prerequisite. Special fee is charged. Juried examination at the end of each semester.

**MUS 142. Applied Music I-Bassoon. 1 credit. OD**

Individual lessons. May be repeated to a limit of two credits. No prerequisite. Special fee is charged. Juried examination at the end of each semester.

**MUS 143. Applied Music I-Horn. 1 credit. OD**

Individual lessons. May be repeated to a limit of two credits. Special fee is charged. Juried examination at the end of each semester.

**MUS 144. Applied Music I-Trumpet. 1 credit. OD**

Individual lessons. May be repeated to a limit of two credits. No prerequisite. Special fee is charged. Juried examination at the end of each semester.

**MUS 145. Beginning Class Piano II. 1 credit. OD**

Continuation of MUS 135. Weekly 1 hour lessons. Special fee is charged.

**MUS 146. Applied Music I-Trombone. 1 credit. OD**

Individual lessons. May be repeated to a limit of two credits. No prerequisite. Special fee is charged. Juried examination at the end of each semester.

**MUS 147. Applied Music I-Euphonium. 1 credit. OD**

Individual lessons. May be repeated to a limit of two credits. No prerequisite. Special fee is charged. Juried examination at the end of each semester.

**MUS 148. Applied Music I-Tuba. 1 credit. OD**

Individual lessons. May be repeated to a limit of two credits. No prerequisite. Special fee is charged. Juried examination at the end of each semester.

**MUS 150. Applied Music I-Percussion. 1 credit. OD**

Individual lessons. May be repeated to a limit of two credits. No prerequisite. Special fee is charged. Juried examination at the end of each semester.

**MUS 151. Applied Music I-Violin. 1 credit. OD**

Individual lessons. May be repeated to a limit of two credits. No prerequisite. Special fee is charged. Juried examination at the end of each semester.

**MUS 152. Applied Music I-Viola. 1 credit. OD**

Individual lessons. May be repeated to a limit of two credits. No prerequisite. Special fee is charged. Juried examination at the end of each semester.

**MUS 155. Applied Music I-Cello. 1 credit. OD**

Individual lessons. May be repeated to a limit of two credits. No prerequisite. Special fee is charged. Juried examination at the end of each semester.

**MUS 156. Applied Music I-String Bass. 1 credit. OD**

Individual lessons. May be repeated to a limit of two credits. No prerequisite. Special fee is charged. Juried examination at the end of each semester.

**MUS 157. Applied Music I-Piano. 1 credit. FA, SP**

Individual lessons. May be repeated to a limit of two credits. No prerequisite. Special fee is charged. Juried examination at the end of each semester.

**MUS 158. Applied Music I-Organ. 1 credit. OD**

Individual lessons. May be repeated to a limit of two credits. No prerequisite. Special fee is charged. Juried examination at the end of each semester.

**MUS 159. Applied Music I-Harp. 1 credit. OD**

Individual lessons. May be repeated to a limit of two credits. No prerequisite. Special fee is charged. Juried examination at the end of each semester.

**MUS 160. Applied Music I-Guitar. 1 credit. FA, SP**

Individual lessons. May be repeated to a limit of two credits. No prerequisite. Special fee is charged. Juried examination at the end of each semester.

**MUS 161. Applied Music I-Voice. 1 credit. FA, SP**

Individual lessons. May be repeated to a limit of two credits. No prerequisite. Special fee is charged. Juried examination at the end of each semester.

**MUS 200. Music Theory III. 2 credits.**

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; CO: MUS 321.

**MUS 212. University Chorus I. 1 credit. FA, SP**

An open ensemble of singers across campus singing public performances of works written for medium to larger choirs. No audition necessary. May be repeated to a limit of three hours for credit.

**MUS 218. Symphonic Band I. 1 credit. FA, SP**

A symphonic band, 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 credit. FA, SP**

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 credit. SP**

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.

**MUS 222. Ear Training And Sight Singing II. 1 credit. FA**

Second course in the three semester sequence. P: MUS 221.

**MUS 237. Applied Music II-Flute. 1 credit. OD**

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).

**MUS 238. Applied Music II-Oboe. 1 credit. OD**

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).

**MUS 239. Applied Music II-Clarinet. 1 credit. OD**

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).

**MUS 241. Applied Music II-Saxophone. 1 credit. OD**

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).

**MUS 242. Applied Music II-Bassoon. 1 credit. OD**

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).

**MUS 243. Applied Music II-Horn. 1 credit. OD**

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).

**MUS 244. Applied Music II-Trumpet. 1 credit. OD**

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).

**MUS 246. Applied Music II-Trombone. 1 credit. OD**

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).

**MUS 247. Applied Music II-Euphonium. 1 credit. OD**

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).

**MUS 248. Applied Music II-Tuba. 1 credit. OD**

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).

**MUS 250. Applied Music II-Percussion. 1 credit. OD**

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).

**MUS 251. Applied Music II-Violin. 1 credit. OD**

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).

**MUS 252. Applied Music II-Viola. 1 credit. OD**

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).

**MUS 255. Applied Music II-Cello. 1 credit. OD**

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).

**MUS 256. Applied Music II-String Bass. 1 credit. OD**

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).

**MUS 257. Applied Music II-Piano. 1 credit. FA, SP**

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).

**MUS 258. Applied Music II-Organ. 1 credit. OD**

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).

**MUS 259. Applied Music II-Harp. 1 credit. OD**

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).

**MUS 260. Applied Music II-Guitar. 1 credit. FA, SP**

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).

**MUS 261. Applied Music II-Voice. 1 credit. FA, SP**

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).

**MUS 265. Musical Theatre Performance Lab (solo). 2 credits.**

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 credits.**

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 credits.**

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 credits. FA, SP, SU (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 credits. FA, SP**

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 credits.**

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 credits.**

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 312. University Chorus II. 1 credit. FA, SP**

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 credit. FA, SP**

The Creighton University Chamber Choir is an auditioned ensemble of advanced singers performing works written especially for a smaller choir. The ensemble specializes in music of all periods, from the Renaissance through the 21st Century. May be repeated to a limit of eight hours.

**MUS 318. Symphonic Band II. 1 credit. FA, SP**

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 credit. FA, SP**

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 credit. SP**

Third course in the three semester sequence. P: MUS 222.

**MUS 337. Applied Music III-Flute. 1 credit. OD**

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).

**MUS 338. Applied Music III-Oboe. 1 credit. OD**

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).

**MUS 339. Applied Music III-Clarinet. 1 credit. OD**

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).

**MUS 341. Applied Music III-Saxophone. 1 credit. OD**

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).

**MUS 342. Applied Music III-Bassoon. 1 credit. OD**

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).

**MUS 343. Applied Music III-Horn. 1 credit. OD**

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).

**MUS 344. Applied Music III-Trumpet. 1 credit. OD**

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).

**MUS 346. Applied Music III-Trombone. 1 credit. OD**

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).

**MUS 347. Applied Music III-Euphonium. 1 credit. OD**

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).

**MUS 348. Applied Music III-Tuba. 1 credit. OD**

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).

**MUS 350. Applied Music III-Percussion. 1 credit. OD**

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).

**MUS 351. Applied Music III-Violin. 1 credit. OD**

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).

**MUS 352. Applied Music III-Viola. 1 credit. OD**

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).

**MUS 353. Jazz in American Culture. 3 credits. OD (Same as AMS 353)**

Examines the relationship between American society and the development of jazz in the course of the twentieth century and beyond. Special attention will be given to those cultural, economic, and political factors which could influence jazz trends on a regional or national level.

**MUS 354. Theorizing Hip Hop Music and Culture. 3 credits.**

This course explores theoretical issues that frame hip-hop as both a sociological and musical phenomenon. We will examine multi-disciplinary approaches of scholars and journalists in their treatment of issues including aesthetics, authenticity, identity, globalization, music and meaning, and genre classification. We will also examine models constructed specifically for analyzing musical structures and technical components of hip-hop music. One objective of the course is to assess the validity of new theories and methods put forth by scholars in their quest to objectify and broaden the discourse on hip-hop.

**MUS 355. Applied Music III-Cello. 1 credit. OD**

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).

**MUS 356. Applied Music III-String Bass. 1 credit. OD**

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).

**MUS 357. Applied Music III-Piano. 1 credit. FA, SP**

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).

**MUS 358. Applied Music III-Organ. 1 credit. OD**

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).

**MUS 359. Applied Music III-Harp. 1 credit. OD**

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).

**MUS 360. Applied Music III-Guitar. 1 credit. FA, SP**

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).

**MUS 361. Applied Music III-Voice. 1 credit. FA, SP**

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).

**MUS 363. Musical Theatre Repertoire. 3 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits. 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 credits. FA, SP**

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 credits. FA**

Introduction to the principles of keyboard accompanying. Includes, under faculty supervision, accompanying for appropriate departmental ensembles and applied instruction.

**MUS 391. Film Music. 3 credits. (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 credits.**

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 credits.**

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 credits.**

Basic rudiments, posture, stance, conducting patterns, attacks and releases, musical styles, and rehearsal/score preparation for both instrumental and choral conducting. P: MUS 221, 222, 321.

**MUS 437. Applied Music IV-Flute. 1 credit. OD**

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 300-level lesson (2 credits).

**MUS 438. Applied Music IV-Oboe. 1 credit. OD**

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 300-level lesson (2 credits).

**MUS 439. Applied Music IV-Clarinet. 1 credit. OD**

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 300-level lesson (2 credits).

**MUS 440. Liturgy, Music, And The Transformed Life. 3 credits. 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 441. Applied Music IV-Saxophone. 1 credit. OD**

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 300-level lesson (2 credits).

**MUS 442. Applied Music IV-Bassoon. 1 credit. OD**

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 300-level lesson (2 credits).

**MUS 443. Applied Music IV-Horn. 1 credit. OD**

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 300-level lesson (2 credits).

**MUS 444. Applied Music IV-Trumpet. 1 credit. OD**

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 300-level lesson (2 credits).

**MUS 446. Applied Music IV-Trombone. 1 credit. OD**

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 300-level lesson (2 credits).

**MUS 447. Applied Music IV-Euphonium. 1 credit. OD**

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 300-level lesson (2 credits).

**MUS 448. Applied Music IV-Tuba. 1 credit. OD**

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 300-level lesson (2 credits).

**MUS 450. Applied Music IV-Percussion. 1 credit. OD**

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 300-level lesson (2 credits).

**MUS 451. Applied Music IV-Violin. 1 credit. OD**

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 300-level lesson (2 credits).

**MUS 452. Applied Music IV-Viola. 1 credit. OD**

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 300-level lesson (2 credits).

**MUS 455. Applied Music IV-Cello. 1 credit. OD**

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 300-level lesson (2 credits).

**MUS 456. Applied Music IV-String Bass. 1 credit. OD**

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 300-level lesson (2 credits).

**MUS 457. Applied Music IV-Piano. 1 credit. FA, SP**

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 300-level lesson (2 credits).

**MUS 458. Applied Music IV-Organ. 1 credit. OD**

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 300-level lesson (2 credits).

**MUS 459. Applied Music IV-Harp. 1 credit. OD**

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 300-level lesson (2 credits).

**MUS 460. Applied Music IV-Guitar. 1 credit. FA, SP**

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 300-level lesson (2 credits).

**MUS 461. Applied Music IV-Voice. 1 credit. FA, SP**

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 300-level lesson (2 credits).

**MUS 495. Independent Research Project. 1-3 credits. FA, SP**

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 credit. FA, SP**

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.

**THR 121. Oral Interpretation Of Literature. 3 credits. AY, FA**

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 credits. FA, SP**

Acting I explores stage deportment, pantomime, voice, and methods of character development, and a brief history of acting up to the 20th century. The course 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 Theatre majors and minors.

**THR 153. Stagecraft I. 3 credits. FA (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 credits.**

This course presents the fundamentals of developing the costumes and accessories for a theatre production. An introduction to equipment, supplies, and history of the costumer's craft through lecture and application. Includes lab hours.

**THR 161. Theatre Appreciation. 3 credits. AY, FA, SP**

To enhance the student's understanding and appreciation of the theatre through the exploration of each theatrical element as it relates to the production whole.

**THR 215. Makeup Design. 3 credits.**

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 credits. (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 credits. FA**

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 credits. 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 credits. FA, SP, SU (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. No prerequisite required. May be repeated for credit to a limit of six hours.

**THR 295. Special Projects. 1-6 credits. FA, SP**

For the non-Theatre major. Requires a University sponsor and written DC and IC.

**THR 323. Classical Greek Drama. 3 credits. FA (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 credits. 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 credits. AY, FA, SP**

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 credits. AY, SP**

Study of styles of acting from historical periods, Greek to modern, including individual projects in characterization. P: THR 131 and THR 153 or IC.

**THR 333. Improvisational Theatre. 3 credits. AY, FA, SP**

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 credits.**

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 credits. FA**

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, THR 153 or IC.

**THR 342. The Art Of Television Directing. 3 credits. SP**

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 credits. 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 credits. 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 credits. (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 THR 153.

**THR 357. Costume Design I. 3 credits. OD**

Principles of costume design, color, rendering techniques and dramatic analysis. P: IC.

**THR 391. Production Practicum. 1-2 credits. FA, SP (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 three hours of shop work weekly (time scheduled with permission of instructor) and working one production as a crew member. Course description for segment two, Costume Crew: Costume construction for Creighton theatre and dance productions. Per credit hour, the course requires three hours of costume shop work weekly (time scheduled with permission of instructor) and working one production as a wardrobe crew member. This course may be repeated to a limit of eight semester hours.

**THR 428. Film and the Fine Arts. 3 credits. 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 250/THL 250 and Sr. stdg.

**THR 432. Actor's Lab. 3 credits.**

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 credits. AY, FA**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 Laboratory. 3 credits.**

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. This course may be repeated for a total of six credits.

**THR 461. American Theater History. 3 credits. 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 credits. AY, FA**

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 credits. AY, SP**

Continuation of THR 465. Required of Theatre majors. P: THR 465 or IC.

**THR 491. Production for Majors. 1-2 credits.**

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, THR 153 and two more core courses.

**THR 493. Internship in Theatre. 1-3 credits. OD, SU**

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 adviser prior to enrolling for this course. P: DC.

**THR 495. Directed Independent Study. 1-3 credits. FA, SP**

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 credits. FA, SP**

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 adviser 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 credits. SU**

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 iMovie II will be covered.

## **B.A., Major in Art History**

### **Specific Requirements for Admission to the Art History Major**

Successful completion of ARH and one additional Art History course.

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

<b>Three credits of Studio Art (ART courses)</b>	<b>3</b>
<b>Select two of the following:</b>	<b>6</b>
ARH 210                      History of Western Art and Architecture I	
ARH 211                      History of Western Art and Architecture II	
ARH 319                      Art International: The Art Culture of the Global Community	
<b>Select three credits from three of the following areas:</b>	<b>9</b>
<b>Non-Western</b>	
ARH 387                      Modern Hispanic Art History	
ARH 414                      The Jesuits and the Arts	
ARH 467                      History of The Art of Spain and Her Colonies	
ARH 468                      Native American Art	
<b>Ancient</b>	
ARH 349                      Egyptian Art and Archaeology	
ARH 354                      Greek Art and Archaeology	
ARH 362                      Imaging Christ: The Challenge of Early Christian Art	
ARH 365                      Greek Art	
ARH 366                      Etruscan and Roman Art	
<b>Medieval and Early Modern</b>	
ARH 369                      Medieval Art and Architecture	
ARH 372                      History of Northern Renaissance Art and Architecture	
ARH 375                      History of Italian Renaissance Art and Architecture	
ARH 377                      Seventeenth-Century Art and Architecture	
ARH 380                      History of the Art of the Eighteenth Century	
<b>Modern</b>	
ARH 385                      History of American Art and Architecture	
ARH 390                      Nineteenth Century Art	
ARH 394                      Modern European Art, 1900-1945	
<b>Select twelve additional credits from the areas above or the following:</b>	<b>12</b>
ARH 301                      Topics in the History of Art	
ARH 350                      Archaeology of Israel and Jordan	
ARH 383                      History and Aesthetics of Photography	
ARH 384                      History of American Architecture	
ARH 386                      The History and Aesthetics of Latin American Photography	
ARH 401                      History and Methods of Art History	
ARH 410                      The Lives of Artists in Film	
ARH 418                      Jesus Through The Ages: Ideas and Images Toward A Coherent Christian Identity and Ethic	
ARH 430                      Selected Topics in Ancient Art and Archaeology	
ARH 435                      Women, Art and Society	
ARH 445                      History of Architecture and Urbanism	

ARH 450	The City	
ARH 461	The City of Rome in Antiquity	
ARH 465	The City of Rome since Antiquity	
ARH 475	Michelangelo and the High Renaissance	
ARH 480	Management of Arts Organizations	
ARH 481	Arts Management Internship	
ARH 489	Summer Art History Seminar	
ARH 493	Directed Independent Research	
ARH 497	Directed Independent Research	
ART 499	Senior Thesis	
Total Credits		30

## B.A., Major 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.

### B.A., Major in Music Requirements: 46 Credits

MUS 100	Music Theory I	2
MUS 101	Music Theory II	2
MUS 200	Music Theory III	2
MUS 221	Ear Training And Sight Singing I	1
MUS 222	Ear Training And Sight Singing II	1
MUS 300	Music History I	3
MUS 301	Music History II	3
MUS 321	Ear Training And Sight Singing III	1
MUS 400	Music History III	3
MUS 415	Conducting	3
MUS 498	Senior Recital	1
<b>Applied Music: Piano</b>		<b>4</b>

Select four credits from the following: <sup>1</sup>

MUS 135	Beginning Class Piano	
MUS 145	Beginning Class Piano II	
MUS 157	Applied Music I-Piano	
MUS 257	Applied Music II-Piano	

**Applied Music: Voice** 4

Select four credits from the following: <sup>1</sup>

MUS 161	Applied Music I-Voice	
MUS 271	Voice Class	

MUS 261	Applied Music II-Voice	
<b>Applied Music: Elective Instrumental Area or Voice Area</b>		<b>2</b>
Two credits of Applied Music I (MUS 137-MUS 161)		
Two credits of Applied Music II (MUS 237-MUS 261)		2
Two credits of Applied Music III (MUS 337-MUS 361)		2
Two credits of Applied Music IV (MUS 437-MUS 461)		2
<b>Performance Ensemble</b>		<b>8</b>
Select eight credits from the following:		
MUS 212	University Chorus I	
MUS 218	Symphonic Band I	
MUS 220	University Orchestra I	
MUS 312	University Chorus II	
MUS 313	Chamber Choir	
MUS 318	Symphonic Band II	
MUS 320	University Orchestra II	
Total Credits		46

<sup>1</sup> These credits may be waived if competency is established by examination.

## B.A., Major in Studio Art

### Specific Requirements for Admission to the B.A., Studio Art Major

Successful completion of ART 105 Art Fundamentals and acceptable portfolio review, normally by the end of the sophomore year.

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

ART 105	Art Fundamentals	3
ART 271	Photo Studio I:Beginning Black and White Photography	3
ART 321	Life Drawing I	3
ART 331	Painting I	3
<b>Select one of the following:</b>		<b>3</b>
ART 201	Arts and Civic Engagement: Empty Bowls	
ART 211	Introductory Ceramics	
<b>Select one of the following:</b>		<b>3</b>
ART 153	Three Dimensional Foundations I	
ART 154	Figure Sculpture	
ART 155	Welded Metal Sculpture I	
ART 156	Bronze Casting Sculpture I	
ART 157	Stone Carving I	
<b>Select one of the following:</b>		<b>3</b>

ART 345	Relief Printing: Woodcut And Linoleum
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ART 347	Etching I
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**Select one of the following:**

3

ARH 210	History of Western Art and Architecture I
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ARH 211	History of Western Art and Architecture II
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**Studio Art Elective**

6

Select six credits from the following:

ART 201	Arts and Civic Engagement: Empty Bowls
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ART 253	Sculpture II
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ART 254	Clay Modeling II
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ART 255	Welded Metal Sculpture II
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ART 256	Bronze Casting II
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ART 257	Stone Carving II
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ART 301	Arts and Civic Engagement: Empty Bowls
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ART 306	Color: Acrylic and Chalk
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ART 311	Intermediate Ceramics I
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ART 312	Intermediate Ceramics II
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ART 322	Life Drawing II
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ART 332	Painting II
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ART 345	Relief Printing: Woodcut And Linoleum
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ART 347	Etching I
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ART 348	Etching II
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ART 353	Sculpture III
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ART 371	Photography Studio II
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ART 372	Color Photography
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ART 373	Photographic Design And Non-Silver Process
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ART 376	The Photo Diary
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ART 390	Sculptural Glass Casting
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ART 395	Summer Art Studio
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ART 411	Advanced Ceramics I
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ART 412	Advanced Ceramics II
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ART 421	Life Drawing III
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ART 422	Life Drawing IV
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ART 431	Painting III
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ART 432	Painting IV
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ART 446	Glass Casting in the Kiln
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ART 447	Etching III
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ART 448	Etching IV
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ART 453	Sculpture IV
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ART 454	Sculpture V
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ART 495	Directed Independent Projects
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HRS 348	Sources and Methods: Pictures and Words: The Visual Book
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**Art History**

6

Select six credits from the following:

ARH 319	Art International: The Art Culture of the Global Community
ARH 349	Egyptian Art and Archaeology
ARH 350	Archaeology of Israel and Jordan
ARH 354	Greek Art and Archaeology
ARH 362	Imaging Christ: The Challenge of Early Christian Art
ARH 365	Greek Art
ARH 366	Etruscan and Roman Art
ARH 369	Medieval Art and Architecture
ARH 372	History of Northern Renaissance Art and Architecture
ARH 375	History of Italian Renaissance Art and Architecture
ARH 377	Seventeenth-Century Art and Architecture
ARH 380	History of the Art of the Eighteenth Century
ARH 383	History and Aesthetics of Photography
ARH 384	History of American Architecture
ARH 385	History of American Art and Architecture
ARH 386	The History and Aesthetics of Latin American Photography
ARH 387	Modern Hispanic Art History
ARH 390	Nineteenth Century Art
ARH 394	Modern European Art, 1900-1945
ARH 401	History and Methods of Art History
ARH 410	The Lives of Artists in Film
ARH 418	Jesus Through The Ages: Ideas and Images Toward A Coherent Christian Identity and Ethic
ARH 430	Selected Topics in Ancient Art and Archaeology
ARH 435	Women, Art and Society
ARH 445	History of Architecture and Urbanism
ARH 450	The City
ARH 461	The City of Rome in Antiquity
ARH 465	The City of Rome since Antiquity
ARH 467	History of The Art of Spain and Her Colonies
ARH 468	Native American Art
ARH 475	Michelangelo and the High Renaissance
ARH 480	Management of Arts Organizations
ARH 489	Summer Art History Seminar
ARH 493	Directed Independent Research
ARH 497	Directed Independent Research

ART 380	History And Criticism Of Cinema
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Total Credits

36

## B.A., Major in Theatre

### Specific Requirements for Admission to the Theatre Major

Successful completion of THR 131 Acting I, THR 153 Stagecraft I, and one of the following: THR 215 Makeup Design, THR 215, THR 223 Basic Television Studio Production, THR 330 Acting II or THR 355 Lighting Design I.

### B.A., Major in Theatre Requirements: 40 Credits

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

**Select six credits from the following:** 6

THR 461	American Theater History
THR 465	Theatre History (5th Century, B.C.-1700)
THR 466	World Theatre History: (1700-Present)

**Select nine additional theatre credits at the 200-400 level.** 9

Total Credits

40

### 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 Musical Theatre

### 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 Introduction to the Dance and THR 131 Acting I.

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

#### Musical Theatre Core

MUS 363	Musical Theatre Repertoire	3
MUS 364	History of Musical Theatre	3

Three additional credits of Musical Theatre Performance	3
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**Music**

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

**Theatre**

THR 330	Acting II	3
THR 335	Audition Technique	3
THR 341	Play Direction And Script Analysis I	3
THR 391	Production Practicum	3
THR 466	World Theatre History: (1700-Present)	3

**Dance**

DAN 331	Advanced I Tap/Jazz	2
DAN 341	Advanced I Ballet	2

**Ballet, Jazz and Tap**

Select nine credits from the following:	9
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DAN 101	Introduction to the Dance	
DAN 221	Intermediate Modern Dance	
DAN 231	Intermediate Tap/Jazz	
DAN 241	Intermediate Ballet	
DAN 321	Advanced I Modern Dance	
DAN 421	Advanced II Modern Dance	
DAN 431	Advanced II Tap/Jazz	
DAN 441	Advanced 11 Ballet	

**Electives**

3

Select three credits from the following:	
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DAN 242	Dance Composition & Theory I	
DAN 342	Individual Choreographic Project	
DAN 383	Summer Session Workshop In Advanced Dance I	
DAN 398	Performance - Third Year	
DAN 483	Summer Session Workshop In Advanced Dance II	
DAN 498	Performance - Fourth Year	
MUS 313	Chamber Choir	
MUS 495	Independent Research Project	
MUS 498	Senior Recital	
THR 331	Acting Styles	

THR 432	Actor's Lab	
THR 441	Play Direction And Script Analysis II	
Total Credits		53

## B.F.A., Major in Studio Art

### 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.F.A., Major in Studio Art Requirements: 54 Credits

ART 105	Art Fundamentals	3
ART 271	Photo Studio I:Beginning Black and White Photography	3
ART 306	Color: Acrylic and Chalk	3
ART 321	Life Drawing I	3
ART 331	Painting I	3
ART 499	Senior Thesis	3
<b>Select one of the following:</b>		3
ART 201	Arts and Civic Engagement: Empty Bowls	
ART 211	Introductory Ceramics	
<b>Select one of the following:</b>		3
ART 153	Three Dimensional Foundations I	
ART 154	Figure Sculpture	
ART 155	Welded Metal Sculpture I	
ART 156	Bronze Casting Sculpture I	
ART 157	Stone Carving I	
<b>Select one of the following:</b>		3
ART 345	Relief Printing: Woodcut And Linoleum	
ART 347	Etching I	
<b>Select one of the following:</b>		3
ARH 210	History of Western Art and Architecture I	
ARH 211	History of Western Art and Artchitecture II	
<b>Select six additional credits in Art History (See B.A. Major in Studio Art)</b>		6
<b>Select eighteen additional credits in studio art 200-level and above.</b>		18
Total Credits		54

## B.F.A., Major in Theatre: Performance Track

### Specific Requirements for Admission to the Theatre Major

Successful completion of THR 131 Acting I, THR 153 Stagecraft I, and one of the following: THR 215 Makeup Design, THR 215, THR 223 Basic Television Studio Production, THR 330 Acting II or THR 355 Lighting Design I.

### B.F.A., Major in Theatre: Performance Track Requirements: 52 Credits

THR 131	Acting I	3
THR 153	Stagecraft I	3
THR 215	Makeup Design	3
THR 223	Basic Television Studio Production	3
THR 355	Lighting Design I	3
THR 491	Production for Majors	4
<b>Select one of the following:</b>		<b>3</b>
THR 461	American Theater History	
THR 465	Theatre History (5th Century, B.C.-1700)	
THR 466	World Theatre History: (1700-Present)	
Total Credits		22

#### Performance Track

THR 154	Costume Construction	3
THR 335	Audition Technique	3
THR 341	Play Direction And Script Analysis I	3
THR 499	Senior Thesis	3
<b>Select one of the following:</b>		<b>3</b>
THR 461	American Theater History	
THR 465	Theatre History (5th Century, B.C.-1700)	
THR 466	World Theatre History: (1700-Present)	
<b>Select three of the following:</b>		<b>9</b>
THR 330	Acting II	
THR 333	Improvisational Theatre	
THR 432	Actor's Lab	
THR 441	Play Direction And Script Analysis II	
<b>Select six additional theatre credits at the 200-400 level.</b>		<b>6</b>
Total Credits		30

## 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: Technical Track

### Specific Requirements for Admission to the Theatre Major

Successful completion of THR 131 Acting I, THR 153 Stagecraft I, and one of the following: THR 215 Makeup Design, THR 215, THR 223 Basic Television Studio Production, THR 330 Acting II or THR 355 Lighting Design I.

### B.F.A., Major in Theatre: Technical Track Requirements: 52 Credits

THR 131	Acting I	3
THR 153	Stagecraft I	3
THR 215	Makeup Design	3
THR 223	Basic Television Studio Production	3
THR 355	Lighting Design I	3
THR 491	Production for Majors	4
<b>Select one of the following:</b>		<b>3</b>
THR 461	American Theater History	
THR 465	Theatre History (5th Century, B.C.-1700)	
THR 466	World Theatre History: (1700-Present)	

Total Credits		22
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#### Technical Track

THR 154	Costume Construction	3
THR 341	Play Direction And Script Analysis I	3
THR 493	Internship in Theatre	3
THR 499	Senior Thesis	3
<b>Select one of the following, not taken in the required THR courses above:</b>		<b>3</b>
THR 461	American Theater History	
THR 465	Theatre History (5th Century, B.C.-1700)	
THR 466	World Theatre History: (1700-Present)	

<b>Select two of the following:</b>		<b>6</b>
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THR 253	Drafting I	
THR 351	Scene Design I	
THR 357	Costume Design I	

<b>Select nine additional theatre credits at the 200-400 level.</b>		<b>9</b>
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Total Credits		30
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## 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.

## Art History Minor

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

### Minor in Art History Requirements: 18 Credits

Select two of the following:

6

ARH 210	History of Western Art and Architecture I
ARH 211	History of Western Art and Architecture II
ARH 319	Art International: The Art Culture of the Global Community

Select twelve credits from the following:

12

ARH 301	Topics in the History of Art
ARH 349	Egyptian Art and Archaeology
ARH 350	Archaeology of Israel and Jordan
ARH 354	Greek Art and Archaeology
ARH 362	Imaging Christ: The Challenge of Early Christian Art
ARH 366	Etruscan and Roman Art
ARH 369	Medieval Art and Architecture
ARH 372	History of Northern Renaissance Art and Architecture
ARH 375	History of Italian Renaissance Art and Architecture
ARH 377	Seventeenth-Century Art and Architecture
ARH 380	History of the Art of the Eighteenth Century
ARH 383	History and Aesthetics of Photography
ARH 384	History of American Architecture
ARH 385	History of American Art and Architecture
ARH 386	The History and Aesthetics of Latin American Photography
ARH 387	Modern Hispanic Art History
ARH 390	Nineteenth Century Art
ARH 394	Modern European Art, 1900-1945
ARH 410	The Lives of Artists in Film
ARH 418	Jesus Through The Ages: Ideas and Images Toward A Coherent Christian Identity and Ethic
ARH 430	Selected Topics in Ancient Art and Archaeology
ARH 435	Women, Art and Society
ARH 445	History of Architecture and Urbanism
ARH 450	The City

ARH 461	The City of Rome in Antiquity
ARH 465	The City of Rome since Antiquity
ARH 467	History of The Art of Spain and Her Colonies
ARH 468	Native American Art
ARH 475	Michelangelo and the High Renaissance
ARH 489	Summer Art History Seminar

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 Total Credits

18

## Dance Minor

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

### Minor in Dance Requirements: 18 Credits

DAN 441	Advanced 11 Ballet	1
DAN 421	Advanced II Modern Dance	1
DAN 431	Advanced II Tap/Jazz	1
DAN 398	Performance - Third Year	1
DAN 498	Performance - Fourth Year	1

Select thirteen credits from the following: <sup>1</sup> 13

10 hours total to be taken in Ballet; no more than 4 total technique hours permitted per semester.

DAN 101	Introduction to the Dance
DAN 221	Intermediate Modern Dance
DAN 231	Intermediate Tap/Jazz
DAN 241	Intermediate Ballet
DAN 242	Dance Composition & Theory I
DAN 243	Dance Composition and Theory II
DAN 303	Theory Of Teaching Dancing To Children
DAN 304	Theory of Teaching Dancing to Children II
DAN 321	Advanced I Modern Dance
DAN 331	Advanced I Tap/Jazz
DAN 341	Advanced I Ballet
DAN 421	Advanced II Modern Dance
DAN 431	Advanced II Tap/Jazz
DAN 441	Advanced 11 Ballet

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 Total Credits

18

<sup>1</sup> Chosen after consultation with the Coordinator of Dance for assignment to appropriate level.

## Music Minor

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

### Minor in Music Requirements: 18 Credits

MUS 100	Music Theory I <sup>1</sup>	2
MUS 221	Ear Training And Sight Singing I <sup>1</sup>	1
<b>Select one of the following: <sup>1</sup></b>		<b>3</b>
MUS 300	Music History I	
MUS 301	Music History II	
MUS 400	Music History III	
<b>Select three credits from the following:</b>		<b>3</b>
MUS 135	Beginning Class Piano	
MUS 157	Applied Music I-Piano	
MUS 257	Applied Music II-Piano	
<b>Select three credits from the following:</b>		<b>3</b>
MUS 271	Voice Class	
MUS 161	Applied Music I-Voice	
MUS 261	Applied Music II-Voice	
<b>Performance Ensembles</b>		<b>3</b>
Select three credits from the following:		
MUS 212	University Chorus I	
MUS 218	Symphonic Band I	
MUS 220	University Orchestra I	
MUS 312	University Chorus II	
MUS 313	Chamber Choir	
MUS 318	Symphonic Band II	
MUS 320	University Orchestra II	
<b>Select three credits from the following:</b>		<b>3</b>
MUS 137-MUS 161 Applied Music I		
MUS 208-MUS 220 Performance Ensemble course		
MUS 237-MUS 261 Applied Music II		
MUS 337-MUS 361 Applied Music III		
MUS 300	Music History I	
MUS 301	Music History II	
MUS 308-MUS 320 Performance Ensemble course		
MUS 400	Music History III	

MUS 101 & MUS 222	Music Theory II and Ear Training And Sight Singing II
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Total Credits	18
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- <sup>1</sup> Students must complete a successful audition before the music faculty before the first semester they are enrolled in applied lessons.

## Studio Art Minor

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

### Minor in Studio Art Requirements: 18 Credits

ART 105	Art Fundamentals	3
Select one of the following:		3
ART 153	Three Dimensional Foundations I	
ART 154	Figure Sculpture	
ART 155	Welded Metal Sculpture I	
ART 156	Bronze Casting Sculpture I	
ART 157	Stone Carving I	
ART 201	Arts and Civic Engagement: Empty Bowls	
ART 211	Introductory Ceramics	
Select three credits of Art History (ARH 200-level and above)		3
Select nine credits of Studio Art (ART 200-level and above)		9
<hr/> Total Credits		18

## Theatre Minor

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

### Minor in Theatre Requirements: 18 Credits

THR 131	Acting I	3
THR 153	Stagecraft I	3
Select one of the following:		3
THR 341	Play Direction And Script Analysis I	
THR 342	The Art Of Television Directing	
Select one of the following:		3

THR 154	Costume Construction	
THR 215	Makeup Design	
THR 223	Basic Television Studio Production	
THR 355	Lighting Design I	
Select one of the following:		3
THR 458	Performance Directing And Production Laboratory	
THR 461	American Theater History	
THR 465	Theatre History (5th Century, B.C.-1700)	
THR 466	World Theatre History: (1700-Present)	
Three additional credits in theatre chosen with Theatre Coordinator		3
<b>Total Credits</b>		<b>18</b>

## Health Administration and Policy

Program Director: Christina A. Clark

Program Office: Hixson-Lied G09

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.

### Major in Health Administration and Policy

#### Specific Requirements for Admission to the Health Administration and Policy Major

Successful completion of HAP 200 Introduction To Healthcare Administration with a grade of C or better and sophomore standing.

- B.S., Major in Health Administration and Policy (p. 301)

### Minors in Health Administration and Policy

- Health Administration and Policy (p. 303)
- Public Health (p. 303)

### Certificate Programs in the College of Professional Studies

This department offers the following certificate program to students in the College of Professional Studies:

- Health Administration and Policy (p. 614)

## Courses

### **HAP 200. Introduction To Healthcare Administration. 3 credits. FA, SP**

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 credits. SP**

Financial and budgetary concepts as applied in the management of healthcare 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. Quantitative Methods in the Social Sciences. 3 credits. FA (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. Statistics for the Social Sciences. 4 credits. SP (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. Healthcare, Society and Culture. 3 credits. FA (Same as ANT 315, SOC 315)**

Study of the relationship between society and health care systems. The sociology of health care organization, including patient-practitioner relationships, concepts of health and disease, healthcare personnel, and systems of delivery. P: Introduction to Anthropology (ANT 111 or ANT 112 or ANT 113) or Introduction to Sociology (SOC 101 or SOC 102) or HAP major.

### **HAP 317. Global Health Issues. 3 credits. SP (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 credits. FA (Same as PLS 331)**

Examines administrative processes and politics in government and non-profit settings. The course emphasizes application of material to case study examples of public and non-profit organizational challenges. Course covers local, state, and national bureaucratic politics. P: So. stdg.

### **HAP 334. Public Policy And Health Care. 3 credits. SP (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 credits.**

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 credits. (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 credits. (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. P: ANT 315 or ANT 363.

**HAP 390. Health Communication. 3 credits. AY (Same as COM 390)**

This course investigates research theories and permits students to demonstrate practical applications of communication within health care situations. The course emphasizes understanding communication variables such as verbal, non-verbal, conflict, listening, and self disclosures in health care contexts. The course also examines issues of ethics and relationships between health care providers, patients, and families.

**HAP 410. Seminar In Health Administration. 3 credits.**

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 credits.**

This course will cover planning and marketing processes common in the healthcare 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 healthcare organization.

**HAP 412. Information Systems in Healthcare Management. 3 credits.**

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 credits.**

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 which will easily transfer into the student's future workplace.

**HAP 414. Careers in Health Administration. 3 credits.**

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 career planning.

**HAP 415. Seminar in Healthcare Management. 3 credits.**

The purpose of this course is to learn about the managerial structures common to the American healthcare industry, including managerial concepts, organizational design, human resource management, motivation and leadership, decision-making, communication and control systems. Students will get experience in skills and activities found in the healthcare work place.

**HAP 420. Seminar in Health Policy. 3 credits. SP**

Selected advanced topics in health policy. May be repeated for six credits as long as topic differs.

**HAP 433. Public Policy Analysis. 3 credits. AY, SP (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 credits. 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, 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 credits. (Same as 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.

**HAP 457. Biomedical Ethics: Philosophical and Theological Approaches. 3 credits. FA, SP, SU (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 credits. (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. 3 credits. FA, SP, SU**

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 credits. FA, SP**

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. 1-6 credits. FA, SP**

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 credits. FA**

Legal aspects of health care in the administration of health organizations. Among topics considered are legal liability and standards of care, malpractice, regulation of health care professions, informed consent, policies regarding medical records, and legal responsibilities for personnel. P: HAP 200.

**HAP 520. Statistical Methods for Public Administration and Policy Analysis. 3 credits. OD (Same as PLS 520)**

Application of research and statistical methods tools to public management issues. Reviews basics of research design with attention to public management tasks and questions. P: PLS 310 or SOC 312.

## B.S., Major in Health Administration and Policy

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

**Health Issues Core Requirements**

HAP 200	Introduction To Healthcare Administration	3
HAP 310	Health Finance and Budgeting	3
HAP 315 or SOC 315	Healthcare, Society and Culture	3
HAP 334 or PLS 334 or NUR 354	Public Policy And Health Care	3
HAP 515	Law and Health Systems	3

**Management Core Requirements**

ACC 201	Introduction To Financial Accounting	3
HAP 331 or PLS 331	Managing The Public And Non-Profit Sectors	3
COM 314 or MGT 301	Managerial Communication	3

**Methodology & Quantitative Skills. Select one of the following:** 3

HAP 312 or SOC 312	Quantitative Methods in the Social Sciences	
PLS 310	Political Science Research Methods	

**Ethics Requirement. Select one of the following:** 3

HAP 457 or SRP 457	Biomedical Ethics: Philosophical and Theological Approaches	
HAP 456	Public Health Ethics	

or SRP 456	Public Health Ethics	
or PHL 456	Public Health Ethics	
<b>Select two courses (6 credits) of the following list of selectives:</b>		<b>6</b>
BIA 253	Management Information Systems	
BIO 401	Biostatistics	
COM 320	Leadership: Theories, Styles, And Skills	
COM 360	Organizational Communication Theories	
ECO 513	Health Economics	
EDP 361	Social Justice in the Dominican Republic <sup>1</sup>	
HAP 317	Global Health Issues	
or SOC 317	Global Health Issues	
HAP 350	The Essentials of Public Health	
HAP 355	Essentials of Epidemiology	
HAP 390	Health Communication	
or COM 390	Health Communication	
HAP 450	Communicating Health Narratives	
or COM 450	Communicating Health Narratives	
HAP 477	Gendered Health Across the Lifespan	
or COM 477	Gendered Health Across the Lifespan	
HAP 520	Statistical Methods for Public Administration and Policy Analysis	
MGT 351	Personal/Human Resources Management	
MKT 319	Principles of Marketing	
MTH 363	Elementary Probability and Statistics	
MTH 513	Probability And Statistics In The Health Sciences	
SOC 314	Statistics for the Social Sciences	
or ANT 314	Statistics for the Social Sciences	
<b>Topical HAP Courses. Select two courses (6 credits) of the following (HAP 400-440):</b>		<b>6</b>
HAP 410	Seminar In Health Administration	
or HAP 411	Seminar in Healthcare Administration: Healthcare Planning and Marketing	
or HAP 412	Information Systems in Healthcare Management	
or HAP 413	Service Excellence and Human Resources in Healthcare	
or HAP 414	Careers in Health Administration	
HAP 420	Seminar in Health Policy	
HAP 433	Public Policy Analysis	
or PLS 433	Public Policy Analysis	
<b>Internship</b>		
HAP 485	Internship In Health Administration And Policy	<b>3</b>
<b>Total Credits</b>		<b>45</b>

<sup>1</sup> taught in the Dominican Republic

## Health Administration and Policy Minor

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.

### Minor in Health Administration and Policy Requirements: 18 Credits

HAP 200	Introduction To Healthcare Administration	3
HAP 334	Public Policy And Health Care	3
<b>Select one of the following:</b>		<b>3</b>
HAP 315	Healthcare, Society and Culture	
HAP 411	Seminar in Healthcare Administration: Healthcare Planning and Marketing	
HAP 413	Service Excellence and Human Resources in Healthcare	
<b>Three additional courses chosen from HAP courses numbered 300 or above.</b>		<b>9</b>
Total Credits		18

### Minor in Health Administration and Policy Requirements for BSN Students Only: 17 Credits

HAP 200	Introduction To Healthcare Administration	3
NUR 354	Power, Politics, And Policy In Health Care	2
NUR 377	Research and Evidence-Based Nursing Practice	3
NUR 474	Applied Nursing Ethics	3
<b>Select one of the following:</b>		<b>3</b>
HAP 315	Healthcare, Society and Culture	
SOC 315	Healthcare, Society and Culture	
HAP 411	Seminar in Healthcare Administration: Healthcare Planning and Marketing	
HAP 413	Service Excellence and Human Resources in Healthcare	
<b>One additional 300 or above level HAP course.</b>		<b>3</b>
Total Credits		17

## Public Health Minor

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.

## Minor in Public Health Requirements: 18 Credits

HAP 350	The Essentials of Public Health	3
HAP 355	Essentials of Epidemiology	3
<b>Select one of the following:</b>		<b>3</b>
HAP 456	Public Health Ethics	
HAP 457	Biomedical Ethics: Philosophical and Theological Approaches	
<b>Select one of the following:</b>		<b>3</b>
HAP 420	Seminar in Health Policy	
HAP 317	Global Health Issues	
EDP 361	Social Justice in the Dominican Republic <sup>1</sup>	
PLS 319	Politics Of The Developing Areas	
PLS 435	Global Poverty and Development	
<b>Select one of the following selective courses:</b>		<b>3</b>
HAP 312	Quantitative Methods in the Social Sciences	
HAP 314	Statistics for the Social Sciences	
HAP 315	Healthcare, Society and Culture	
HAP 420	Seminar in Health Policy	
HAP 433	Public Policy Analysis	
ANT 307	Demography: World Population Issues	
ANT 340	Native American Cultures and Health	
ANT 363	Medical Anthropology	
ANT 383	Cultural Epidemiology: Global Perspectives	
SOC 355	Environment and Society: Sociological Perspectives	
SOC 455	Food, Society, and Environment	
PLS 333	Environmental Politics And Policy	
PLS 433	Public Policy Analysis	
<b>Select one of the following selective courses:</b>		<b>3</b>
BIO 149	Human Biology	
BIO 351	Microbiology	
BIO 390	Environmental Science	
BIO 401	Biostatistics	
BIO 432	Immunology	
BIO 539	Ecology of Zoonotic Diseases	
BIO 581	Evolution	
HAP 331	Managing The Public And Non-Profit Sectors	
HAP 334	Public Policy And Health Care	
MTH 363	Elementary Probability and Statistics	
MTH 513	Probability And Statistics In The Health Sciences	

SWK 261

Social Welfare Needs of Vulnerable Populations: Exploring Helping Role from Social Work Perspective

Total Credits

18

1 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.

## History

Chair: Heather E. Fryer

Department Office: Humanities Center, Room 216

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.

### Major in History

#### Specific Requirements for Admission to the History Major

Successful completion of HIS 101 The Modern Western World.

- B.A., Major in History (p. 318)

### Minors in History

- European Studies (p. 320)
- History (p. 321)

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.

## Courses

### **HIS 101. The Modern Western World. 3 credits. FA, SP, SU**

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 credits. FA, SP**

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 or HIS 110.

### **HIS 104. The Latin American World. 3 credits. FA, SP**

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 or HIS 110.

**HIS 106. The African World. 3 credits. FA, SP (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 or HIS 110.

**HIS 107. The Middle Eastern World. 3 credits. FA, SP**

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 or HIS 110.

**HIS 108. The Native American World. 3 credits. FA (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 or HIS 110.

**HIS 110. History and Technology in the Modern World. 3 credits.**

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 170. Liberation. 3 credits.**

A privileged group of philosophes during the Enlightenment wrote about freedom. Their ideas became the basis of new forms of society, and almost immediately were appropriated by expanding groups of subjects. We will examine some of the founding documents of human liberation and explore the uses of "liberty" today.

**HIS 171. Critical Issues in Human Inquiry: Waging Peace in the Twentieth Century. 3 credits.**

Waging "Peace" is a historical study that puts war on the margins of inquiry and peacemaking at the center of 20th century history. This unorthodox historical perspective allows exploration into whether an alternative narrative of the past presents under-examined possibilities for promoting peace and justice in the present. CO: COM 101.

**HIS 172. Globalization and Leadership in Africa. 3 credits.**

This course examines the extent to which western leadership norms, ethics and values have been adopted within the African nation-state system. We will study the African nation-state as a product of globalization (as westernization) and the extent to which leadership institutions and practices in Africa approximate their western counterparts. CO: COM 101.

**HIS 173. Colonial Legacies in Asia. 3 credits.**

This course explores colonialism and its legacies in Asia. However, rather than relating a narrative of colonial occupations, policies, and resistance movements, this course examines the philosophical, moral, social, and cultural aspects of colonialism within a thematic and conceptual framework. It is designed to critically interrogate the notions and definitions that serve to structure our understanding of "East" and "West" and the encounters that framed the historic relationship between the two. Concepts of race, power, gender, national identity, morality, technology, and environment are all deeply examined. CO: COM 101.

**HIS 174. Discovering Paradise. 3 credits.**

Postcard views of the tropical islands of the Pacific invite visitors to enjoy a taste of paradise. But paradise has a history not neatly contained in these carefully framed shots. The discovery of paradise is a complicated tale of exploration and empire, resistance and exchange, artful imagination and difficult reality. CO: COM 101.

**HIS 176. Controversies in Science and Medicine (1900-1990). 3 credits.**

In this course, we will examine the changing ways that these dilemmas have been recognized and addressed since the early-20th century. Rather than a chronological survey of this time period, we will approach these historical topics thematically. This will include an historical analysis of the rise of bioethics, as well as evolving conceptions of autonomy, social justice, disease, and disability. Topics of study in this course will include changing and contested perspectives on end-of-life decision-making, the adoption of new reproductive technologies, and the diagnosis and prevention of hereditary disease. In addition, we will consider how various forms of technological automation over the course of the 20th century have changed what it means to an autonomous individual or professional expert in daily life. CO: COM 101.

**HIS 177. Seeking God in the Pre-Modern West. 3 credits.**

This course explores the variety of religious practices that emerged from late antiquity through the sixteenth century to help people find spiritual fulfillment. As we explore how those of past ages sought God, students will be challenged to contemplate what they seek in their own lives, and why. CO: COM 101.

**HIS 271. Conquest, Piracy, and Slavery: A History of the Atlantic. 3 credits.**

Emphasis will be placed on patterns of change and continuity since the fifteenth century. Topics such as the slave trade, colonial encounters, and race will inform the lectures, discussions, and group activities. The experiences and culture of peasants and elites will underscore how people interacted and made their own history. P: Critical Issues in Human Inquiry course.

**HIS 300. Historiography. 3 credits. FA**

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 304. History Of Greece And Rome. 3 credits.**

Historical survey of the Mediterranean region in the Hellenic and Roman periods. The Greek city-state, Hellenistic kingdoms, the Roman Republic and Empire. Political, economic, and cultural institutions.

**HIS 307. Introduction to American Studies. 3 credits. (Same as AMS 307, and ENG 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 credits. (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 credits. FA**

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 credits. SP**

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 317. Inside Hitler's Germany-A Study Of Nazi Tyranny. 3 credits.**

Study of the rise and consolidation of tyranny in a modern Western society. Readings, discussions, and lectures on the conditions that led to Hitler's rise to power; the personalities and policies that characterized the Nazi regime; the public and private choices required of people living in Nazi Germany; and the impact of Nazi terror and war on individuals and groups of people. P: So. stdg.

**HIS 321. Tudor and Stuart England. 3 credits.**

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 credits.**

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 and 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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits. (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 Archaeology. 3 credits. 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 credits. 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 of Iron Age kingdoms such as Israel, Moab, and Edom. P: So. stdg.

**HIS 351. Warfare in the Classical World. 3 credits. (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 credits.**

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 credits.**

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 credits. (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 credits.**

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 credits.**

Continuation of HIS 357. HIS 357 is not a prerequisite to HIS 358. The influence of religion on American cultural, intellectual, special, and political development. The responses to urban growth and industrialization; the development of the Social Gospel; nativism and its impact on American religion; crusading Protestants or the role of missionaries; the rise of Neo-Orthodoxy; revivalism in modern America; religion in American life in economic depression, in war, in prosperity, in social turmoil; unbelief in America; and the new religions in America. P: So. stdg.

**HIS 359. The City In United States History. 3 credits. (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 African-American Experience. 3 credits. (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 credits.**

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 credits. (Same as AMS 372, BKS 372, PLS 372)**

Incorporates continuing discourses between a historian and a political scientist. Exploration of the 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 credits.**

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 1492. 3 credits.**

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: Soph. stdg.

**HIS 384. Black History Through Literature. 3 credits. (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 credits. (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 credits.**

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. United States Military History. 3 credits. SP**

Survey of 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 and military policy. P: So. stdg.

**HIS 395. Selected Topics. 3 credits. 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 credits. FA, SP**

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 credits. AY, FA (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 credits. AY, FA (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 credits. (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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 siecle. P: So. stdg.

**HIS 416. For the Greater Glory: The Jesuits, Their History and Spirituality. 3 credits. (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 credits.**

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 credits. (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 credits. (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 credits. 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 credits.**

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 credits. (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 credits. (Same as AMS 449)**

Considers the European colonization of North America and the cultural, economic, political, and social development of the American colonies to 1763. Emphasis on cultural encounters and the transformation of Europeans into provincial Americans. P: Soph. stdg.

**HIS 450. Revolutionary America. 3 credits. 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 credits.**

Explores implementation of the Constitution, creation of the Bill of Rights, formation of the first political parties, and roles of key figures such as George Washington, John Adams, Thomas Jefferson, and Andrew Jackson in the period between 1789 and 1850. Also considered are the democratization process, reform movements, nationalism, slavery, and that sectionalism which led to the Civil War. P: So. stdg.

**HIS 452. Civil War and Reconstruction. 3 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits. (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 workplace, 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 462. History of Southeast Asia. 3 credits.**

Course explores the rich global history of Southeast Asia. Begins with a careful and detailed examination of the region's cultural foundations, both mainland and insular, and then examines the successive cultural and political waves that have washed over the region to form its unique and diverse history – Indic, East Asian, Arabic, Western, and post-colonial. Southeast Asia is truly the crossroads of the world.

**HIS 463. Japan in the Twentieth Century: A History of Modern Culture. 3 credits.**

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 in Asia. 3 credits. (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 credits.**

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 credits.**

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 credits.**

Course takes a deep and highly analytical look at the creation and function of Modern China. Begins with an exanination of Chinese cultural foundations and then picks up with the Yuan Dynasty and Chinese resistance, the genesis of modern Chinese national identity. The Course then covers the challenges of Western intrusion, communist reclamaiton, and the rise of China as a potential super power. P: So. stdg.

**HIS 468. Modern Japan. 3 credits.**

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 credits.**

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 credits.**

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: So. stdg.

**HIS 474. Heroes In Latin American History. 3 credits.**

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 credits.**

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 credits. SP**

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 credits. (Same as AMS 482, BKS 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.

**HIS 484. Nationalist Movements in Colonial Africa. 3 credits. (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 credits. (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 486. Women and Gender in Africa. 3 credits.**

A study of the roles and representations of women and gender as conceptual and analytical categories in African history and society. P: So. Stdg.

**HIS 487. History of West Africa. 3 credits. (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 credits. (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 credits. OD**

May be repeated to a limit of six hours. P: DC.

**HIS 497. Directed Independent Research. 1-3 credits. OD**

May be repeated to a limit of six hours. P: DC.

**HIS 498. History Practicum. 1-3 credits. OD**

May be repeated to a limit of four hours. This course is graded Satisfactory/Unsatisfactory. P: DC.

**HIS 500. Senior Seminar. 3 credits. SP**

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 credits. 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 credits. 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 541. War and Society Modern World. 3 credits.**

A survey of military history from the 18th century up to and including current theories concerning future conflict to be waged with nuclear weapons.

**HIS 542. The Rise of the Irish Free State. 3 credits.**

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 credits.**

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 credits.**

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 credits.**

Rise of Prussia and Austria; the impact of revolution and reaction; the Austro-Prussian dualism; Bismarck and the new nation-state; the Wilhelminian 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 credits.**

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 credits. FA (Same as INR 548)**

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, Yelstin, and Putin. P: So. stdg.

**HIS 551. The Rise and Fall of Europe's Empires. 3 credits.**

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 credits. AY, FA (Same as INR 562)**

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 credits. AY, SP (Same as INR 563)**

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 credits. FA (Same as INR 565)**

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 567. Change And Revolution In The Middle East. 3 credits. (Same as INR 567)**

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 577. Cuba Under Castro. 3 credits. (Same as INR 577)**

The roots of the revolution from the earliest days of Cuban independence through the frustrated movements 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 credits.**

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. 1-6 credits. OD**

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 credits.**

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 credits. OD**

Course will be subtitled in the Schedule of Courses. May be repeated to a limit of six hours.

## B.A., Major in History

### B. A., Major in History Requirements: 36 Credits

HIS 101	The Modern Western World	3
HIS 300	Historiography	3
HIS 311	United States History To 1877	3
HIS 312	United States History Since 1877	3
HIS 400	Research Methods in History	3
HIS 500	Senior Seminar	3
Select one of the following:		3
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	
HIS 110	History and Technology in the Modern World	
<b>Fifteen additional credits of HIS 300-level or above.</b>		<b>15</b>
Total Credits		36

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:

Select fifteen credits from the following: 15

HIS 347	The Arab-Israeli Conflict: Struggle For The Holy Land	
HIS 371	Mexico And The Mexican Revolution	
HIS 375	The United States And Latin America	
HIS 388	Origins of Modern Africa	
HIS 393	United States Military History	
HIS 395	Selected Topics <sup>1</sup>	
HIS 417	20th Century Europe	
HIS 462	History of Southeast Asia	
HIS 467	Modern China	
HIS 468	Modern Japan	
HIS 479	The Making of Modern Egypt	
HIS 484	Nationalist Movements in Colonial Africa	
HIS 489	Southern Africa: The Politics of Race	
HIS 493	Directed Independent Readings <sup>1</sup>	
HIS 497	Directed Independent Research <sup>1</sup>	
HIS 545	Modern France	
HIS 546	Modern Germany	
HIS 547	Postwar Europe	
HIS 548	Russia's Revolutions	
HIS 551	The Rise and Fall of Europe's Empires	
HIS 562	Foreign Relations Of The United States, 1898-1945	
HIS 563	Foreign Relations of the United States Since 1945	
HIS 565	The United States And Canada: The Siamese Twins Of North America	
HIS 567	Change And Revolution In The Middle East	
HIS 577	Cuba Under Castro	

HIS 595

Special Problems in History <sup>1</sup>

Total Credits

15

<sup>1</sup> As pre-approved by Department Chair.

## European Studies Minor

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.

### Minor in European Studies Requirements: 18 Credits

#### History

6

Select two of the following:

HIS 321	Tudor and Stuart England
HIS 395	Selected Topics
HIS 407	The Early Middle Ages
HIS 408	The High And Late Middle Ages
HIS 409	The Crusades: A Mirror Of Medieval Society
HIS 411	The Renaissance
HIS 412	The Reformation
HIS 415	19th Century Europe
HIS 417	20th Century Europe
HIS 421	The Vikings
HIS 493	Directed Independent Readings
HIS 497	Directed Independent Research
HIS 535	Modern Russian Cultural History
HIS 544	History of Ireland
HIS 545	Modern France
HIS 546	Modern Germany
HIS 547	Postwar Europe
HIS 548	Russia's Revolutions
HIS 551	The Rise and Fall of Europe's Empires
HIS 595	Special Problems in History <sup>1</sup>

#### Philosophy/Political Science

3

Select one of the following:

PHL 373	History Of Modern Philosophy
PHL 374	History Of 19th-Century Philosophy
PHL/PLS 459	Marxism
PLS 401	The European Union

#### Literature

3

Select one of the following:

ENG 340	English Literature I: Medieval/Early Renaissance
ENG 341	English Literature II: Late Renaissance/Neo-Classical
ENG 342	English Literature III: Romantic/Victorian
ENG 330	Introduction To Irish Literature
ENG 430	Studies in Irish Literature
ENG 450	Contemporary British Literature
FRN 522	French Civilization Before The French Revolution
FRN 524	French Civilization After The French Revolution
FRN 525	Paris, Ville Du Monde (Paris, City Of The World)
GER 328	Studies In Contemporary German Culture: The Last 25 Years
GER 525	The New Berlin
GER 568	The Multiplicity Of German Culture: Cultural Differences And Marginality
GER 572	Reading German Films
SPN 421	Civilization and Culture of Spain
SPN 427	Survey of Peninsular Literature
SPN 541	Medieval Spanish Literature
SPN 568	Multicultural Spain Through Letters, Politics, Theater And Film

**History of Art** 3

Select one of the following:

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

**One additional course chosen from the lists above.** 3

Total Credits 18

<sup>1</sup> As pre-approved by Department Chair.

## History Minor

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.

### Minor in History Requirements: 18 Credits

**Eighteen credits in HIS courses numbered 300 and above.** 18

Total Credits 18

# Honors Program

Program Director: Jeffrey P. Hause

Assistant Director: Lydia R. Cooper

Program Office: Hitchcock 303

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.

**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

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 may apply for 1- or 2- credit tuition waiver for a given semester, for up to 20 credit hours, subject to Dean's Office Approval.

## Courses

### **HRS 100. Honors Foundational Sequence I: Beginnings of the Christian Intellectual Tradition. 3 credits.**

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. 3 credits.**

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 credits.**

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 credits.**

This course is an introduction to the study of politics. The focus will be on methods in the social sciences. That is, we are going to consider ways of knowing in political science. How do we know? The seminar will necessarily deal with paradigms, particularly how paradigms establish both ontological and epistemological bases for research and in so doing establish the boundaries of a discipline. P: Only open to students in the Honors Program.

**HRS 302. Sources and Methods: Research in the Writing of Poetry. 3 credits.**

This course will explore the role of research in the inspiration and composition of imaginative writing, specifically poetry. Students will practice various methods used in the process of creating poetry that is inspired and informed by research and learning in areas other than literature. Our central questions will be: How do poets write poems based on research into history, biography, science? What part does research play in the inspiration of poems? How do facts drawn from research and the poetic imagination interact? How do poets - how will you - choose areas to research? Can subject matter be drawn from and expand on, for example, daily interests and activities, such as other courses one is taking? In addition, students will explore the various elements of poetic form and craft. P: Only open to students in the Honors Program.

**HRS 303. Sources and Methods: Fuzzy Math Logic. 3 credits.**

In the twenty-first century many mechanical devices have gained the ability to react to their environment. For example a clothes dryer 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 credits.**

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 credits.**

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 credits.**

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 Culture in Personal Writing. 3 credits.**

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 credits.**

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 credits.**

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 credits.**

This Sources and Methods course 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 credits.**

This Sources and Methods course 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: Godel, Escher and Bach. 3 credits.**

This Sources and Methods course uses an intensive study of Douglas Hofstadter's Godel, 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 credits.**

This Sources and Methods course 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 credits.**

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 credits.**

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 credits.**

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" and 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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 and Place in America. 3 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 protagonist: 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; P: Only open to students in the Honors Program.

**HRS 334. Sources and Methods: Green Chemistry and Sustainability. 3 credits.**

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; P: Only open to students in the Honors Program.

**HRS 335. Sources and Methods: Not Lost in Translation. 3 credits.**

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; P: Only open to students in the Honors Program.

**HRS 336. Sources and Methods: Theory, Method and Art of Autoethnography. 3 credits.**

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; P: Only open to students in the Honors Program.

**HRS 337. Sources and Methods: Women in Music. 3 credits.**

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 Writing of Poetry. 3 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 349. Two Philosophical Perspectives. 3 credits.**

This course compares philosophies that treat the same issues from instructively different perspectives. Students will learn how different philosophical methods influence the articulation and resolution of problems, and how different conceptual apparatus enable philosophers to engage the same problems differently. May be repeated one time. P: Membership in the Honors Program and HRS 100.

**HRS 350. Witchcraft, Oracles, and Magic. 3 credits.**

This course addresses the variety of ways anthropologists describe and interpret religious phenomena. We will focus in particular on religion within the context of specific human social groups (primarily those which are called "local"). The course culminates in an intensive case study of the East African Azande. P: Membership in the Honors Program and HRS 100.

**HRS 351. Colonialism and Agency. 3 credits.**

This course investigates colonialism and human agency in modern history, with an emphasis on relations between "East" and "West." It first examines the philosophical and methodological approaches of historical inquiry and then outlines the basic theoretical models for understanding colonialism, agency, and post-coloniality, balancing theory with primary accounts of colonialism. P: Membership in the Honors Program and HRS 100.

**HRS 352. (SAM): Organizational Rhetoric. 3 credits.**

Organizational rhetoric is the strategic use of symbols to generate meanings: communication processes through which organizations influence popular attitudes and public policies. Students use rhetorical critical methods to analyze how people within organizations use language to generate collective identities, to communicate with stakeholders, to reinforce organizational values, and in many ways, to control. P: Membership in the Honors Program and HRS 100.

**HRS 353. American Classical Music. 3 credits.**

The course investigates Western art music from the American perspective - everything from the music of indigenous people, to the New World classical music, to the birth of jazz, film, and Broadway, and the 20th century American avant garde. Students will also develop listening skills for the aural analysis of such music. P: Membership in the Honors Program.

**HRS 354. Antiquity in Modern Media. 3 credits.**

This course will explore the advantages and disadvantages of learning about the Near East, Greece, and Rome through such non-traditional media as the performing arts, games, sports, and graphic novels. It will also introduce students to three methods for studying ancient history: social history, cultural history, and political history. P: Membership in the Honors Program.

**HRS 355. Biotechnology. 3 credits.**

An introduction to biotechnology and its application in a variety of disciplines. Since biotechnology is based on the techniques and tools in several fields, students will learn the details of fields such as molecular biology, biochemistry, bioinformatics, and genetics. We will also explore the ethics of implementing this technology. P: Only open to students in the Honors Program.

**HRS 356. Archaeology and Politics. 3 credits.**

This class will analyze the political use of the past with a focus on archaeological and artistic cultural monuments in the ancient Mediterranean and Near East. We will explore the intertwining of modern political ideologies with the way past cultural heritage is collected, interpreted, presented, and maintained. P: Only open to students in the Honors Program.

**HRS 357. Conservative Political Theory. 3 credits.**

This course will explore an alternative to the classical liberalism that dominates American thought: the classical conservatism of such thinkers as Burke and deTocqueville. We will pay special attention to the question of that makes for a good society and what moral roles government should take. P: Only open to students in the Honors Program.

**HRS 358. Literature Religion Philosophy. 3 credits.**

This course examines the ways in which religious activity, beliefs, and aspirations are presented in literature. Can literature convey information about religion that standard academic discussions cannot? Does literature help to convince us that certain religious beliefs are plausible or implausible, or that certain religious aspirations are worthwhile or not? P: Only open to students in the Honors Program.

**HRS 359. The Novel as African History. 3 credits.**

This seminar examines representations of Africa, Africans and African history in the works of Victorian English and contemporary African writers. Through a critical reading of these works, we will interrogate the ways in which the colonial encounter displaced African and European political, social, cultural, religious, and epistemological formations and values. P: Membership in the Honors Program.

**HRS 493. Directed Independent Study. 1-3 credits.**

A course of study in a particular area of interest with a faculty member cooperating with the Honors Program. Limit of three hours. May not be undertaken in the same semester as HRS 497.

**HRS 497. Directed Independent Research. 1-3 credits.**

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 and Other

Interdisciplinary and courses from the health science schools may be available for College of Arts and Sciences students to take.

**CAS 101. Dean's Fellows Foundational Sequence. 0 credits.**

Deans Fellows course. Graded Satisfactory/Unsatisfactory. P: Deans Fellow; IC.

**NSC 111. Time's Arrow: The Evolving Universe. 2 credits.**

This course is a broad exposure for non-science students to several scientific disciplines and ways of knowing under the umbrella of a common theme: change. Course topics to be covered include the scientific method, the nature and measurement of time, The Big Bang/evolution of the Universe, and biological evolution.

**IDC 491. Women in Science. 1 credit. SP**

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.

**BMS 111. Basic Human Anatomy. 4 credits. FA**

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.

**BMS 301. Biochemistry. 3 credits. FA**

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 credits. SP**

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 credits. FA**

Course designed to provide pre-professional students with an introduction to human gross anatomy, histology, and neuroanatomy. A systemic approach is used. Dissected cadaver specimens and anatomical models are available as learning aids. P:IC.

**BMS 404. Human Physiology. 3 credits. SP**

Designed to provide pharmacy and pre-allied health students with knowledge of human physiology. The function of the major organ systems is covered in a series of lectures and discussions. P: Registered Pharmacy Doctoral Program.

**BMS 411. Human Anatomy for Pre-Professionals. 4 credits. SP**

This course is designed to provide an overview of the microscopic and gross anatomy of the human body using a systems approach. A combination of lectures, discussions, and laboratories is employed with a major focus on a laboratory experience using the light microscope and cadaver dissections.

**BMS 497. Directed Independent Research. 1-3 credits. OD**

This course consists of original scientific investigation under supervision and guidance of the instructor. Upon successful completion of this course, students will acquire the skills necessary to perform experiments, assess, and interpret results; demonstrate competence in the laboratory, effectively analyze, synthesize, and interpret data; and communicate their results. P: IC.

**BMS 511. Medical Bioinformatics and Functional Genomics. 3 credits. FA**

This course covers functional aspects of eukaryotic cells including gene regulation/expression, signal transduction, and cell-cell interactions. The course will be geared towards answering specific biological questions ranging from detailed analysis of a single gene through whole-genome analysis, transcriptional profiling, and functional genomics. P: IC.

**BMS 521. Principles of Biochemistry. 4 credits. SP**

This course examines the fundamental principles of structural biochemistry, enzymology, metabolism and molecular biology. P: CHM 323 or Gr. Stdg. only with IC.

**IPE 410. Interprofessional Foundations in Patient Safety. 2-4 credits.**

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.

**MIC 141. Microbiology. 4 credits. FA**

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. Medical Microbiology and Immunology. 3 credits. FA**

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 credits. SP**

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.

**OTD 215. Medical Terminology. 1 credit.**

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.

**PHR 241. Pharmacology I. 4.5 credits.**

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: BMS 301, BMS 404, MIC 541; CO: PHA 337.

**PHR 242. Pharmacology II. 4.5 credits.**

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 Neuropharmacology. 3 credits.**

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 credits. FA**

The chemical basis for drug action in vivo and in vitro. General chemical principles, physiochemical properties and drug-receptor interactions are used to derive structure-activity relationships for important drug classes permitting the understanding of the pharmacological and biopharmaceutical profiles of currently available drug products. Provides a basis for predicting biological properties and activities of future products. P: DC.

**PHR 532. Chemical Basis Of Drug Action II. 3 credits. SP**

Continuation of PHR 531. P: DC.

**PHR 537. Rational Drug Design And Discovery. 2 credits. FA, 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 credits. FA, OD, SP, SU**

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 credits. FA, OD, SP, SU**

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.

**PHA 213. Human Anatomy for Pre-Pharmacy Students. 3 credits.**

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 202 and BIO 201 or equivalent.

## Journalism, Media and Computing

Chair: Eileen M. Wirth

Department Office: Hitchcock Communication Arts Building, Room 209

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.

## Majors in Journalism, Media and Computing

- B.A., Graphic Design and Media: Graphic Design Track (p. 343)
- B.A., Graphic Design and Media: Multi-Media and Photojournalism Track (p. 344)
- B.A., Journalism: Advertising Track (p. 345)
- B.A., Journalism: News Track (p. 346)
- B.A., Journalism: Public Relations Track (p. 346)
- B.S., Computer Science and Informatics: Computing Science Track (p. 347)
- B.S., Computer Science and Informatics: Digital Development Track (p. 348)

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.

## Associate Degree in the College of Professional Studies

This department offers the following associate degree to students in the College of Professional Studies:

- Computer Science (p. 585)

## Courses

### **CSC 121. Computers and Scientific Thinking. 3 credits. FA, SP**

An introduction to science and scientific reasoning from a perspective that integrates computer science and the natural sciences. Students will gain a basic understanding of computer technology and how computers are used in various scientific disciplines. Methods and applications from the biological sciences will be emphasized, providing practical insights into how biologists utilize computers and computer modeling in solving problems.

### **CSC 221. Introduction to Programming. 3 credits. FA, SP**

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 credits. SP**

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 credits. FA**

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. Introduction To Computer Organization. 3 credits. FA**

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 credits. SP**

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 427. Data Structures And Algorithm Analysis. 3 credits.**

An advanced problem-solving course that focuses on the design and analysis of data structures including lists, trees, and hash tables, searching and sorting, and graph algorithms. In addition, approaches to problem solving such as divide-and-conquer and dynamic programming are covered. P: CSC 222, CSC 309.

**CSC 444. Human Computer Interaction. 3 credits. OD, SP**

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 credits. (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. 1-3 credits.**

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. 1-3 credits.**

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 credits.**

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 credits.**

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 credits. 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 credits. 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 credits. SP**

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 535. Introduction To Compiler Design. 3 credits. OD**

Review of program language structures, grammars, translation, loading, execution and storage allocation; compilation of simple structures. Organization of a compiler including compile-time symbol tables, lexical scan, syntax and semantic analyzer, object code generation, error diagnostics; object code optimization techniques; overall design. P: CSC 527.

**CSC 538. Computer Networks. 3 credits. 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 credits. 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 credits. 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 credits. FA, SP**

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. Introduction To Artificial Intelligence. 3 credits. 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 credits. FA**

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 credits. 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 credits.**

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 credits.**

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 credits.**

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.

**GDE 300. Concept Sketch Development. 3 credits.**

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 324. Digital Foundations for the Web. 3 credits.**

This course teaches the basics of designing graphics and imagery and then how to publish it online by creating websites. In addition, students learn to use a content management system such as Wordpress.

**GDE 370. Video and Photojournalism. 3 credits. FA**

An introduction to beginning digital video and photojournalism. Students will effectively use still and video documentary and other new media forms including the fundamentals of shooting (including composition, lighting, audio, etc) and editing with the goal of effective storytelling.

**GDE 374. Digital Video. 3 credits. FA, SP, SU**

Students learn how to shoot, produce and edit digital video short format projects for online television and mass media distribution. P: Journalism, Informatics & Computing Sciences, Graphic Design, and Digital Design and Development majors only. P: GDE 370 or IC.

**GDE 375. Photojournalism I. 3 credits. FA**

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.

**GDE 376. Photojournalism II: Picture Editing. 3 credits.**

The course examines the principles of design for newspapers and magazines with an emphasis on using photographs in the design. P: GDE 375.

**GDE 377. Photojournalism III: Editorial Illustration. 3 credits. FA**

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: GDE 375.

**GDE 380. Graphic Design I. 3 credits. FA, SP, SU**

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 credits. FA, SP**

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 credits. FA, SP, SU**

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 385. Computer Illustration. 3 credits.**

Illustrating editorial and visual concepts using the computer and a variety of hardware and software graphic tools. Students will work digitally and combine visual elements from photographs, artwork and various imaging, but will focus on creating original raster and vector illustrations. Subjects include color theory, history of illustration, raster vs vector imaging, scanning, calibration, halftones, color separating, file sharing and conversion, etc.

**GDE 410. Motion Graphics. 3 credits.**

Learn to create static graphics with the intent on animation. Create typography and motion/moving graphics, including storyboards, web preparation, and preparation for video. Each student will pitch ideas and discuss with class, and participate in critiques in order to improve content and motion graphic projects. Students will learn to quickly develop concepts and explain their ideas via digital concept sketches. P: GDE 380 and GDE 370.

**GDE 423. Interactive Multimedia Design. 3 credits. FA**

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 credits. FA, SP**

The course is an intense examination of the use of typography in both historical and modern contexts. Students will learn effective ways to utilize type in a variety of digital and print media, with lectures in aesthetic, strategic and technical use of final projects that will showcase the strategic use of appropriate custom digital and hand-rendered typography. P: GDE 380.

**GDE 425. 3D Graphics and Animation. 3 credits. SP**

An advanced 3D computer graphics and animation course that builds on the design and illustration concepts developed in the fundamental JMC graphic design courses. Students will learn to develop illustrations in a three dimensional space and learn the basics of 3D animation. P: Jr. stdg. or IC.

**GDE 455. Projects in Communication. 1-3 credits. FA, SP, SU (Same as JRM 455)**

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 has been accrued. Graded Satisfactory/Unsatisfactory. P: IC.

**GDE 474. Mini-Documentary Filmmaking. 3 credits. SP**

Learn to create static graphics with the intent on animation. Create typography and motion/moving graphics, including storyboards, web preparation, and preparation for video. Each student will pitch ideas and discuss with class, and participate in critiques in order to improve content and motion graphic projects. Students will learn to quickly develop concepts and explain their ideas via digital concept sketches. P: GDE 370.

**GDE 493. Directed Independent Readings. 1-3 credits. FA, SP, SU (Same as JRM 493)**

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.

**GDE 599. Senior Capstone. 3 credits.**

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.

**JRM 202. Design and Rapid Prototyping Lab II. 2 credits.**

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 credits. FA, SP**

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 credits. FA, SP, SU**

Students learn basic news writing forms and techniques and develop their interviewing and writing skills in gathering and writing news and feature stories for the student newspaper. The course also introduces students to ethical, legal and other issues surrounding the role of media in a democratic society.

**JRM 220. Professional Writing. 3 credits. SP**

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 credits.**

The course examines the principles and media of advertising and evaluates advertising's role in society and in business.

**JRM 315. Public Relations and Advertising Principles. 3 credits.**

This is a collaborative, team-taught class that will incorporate half a semester each of PR Principles and Advertising Principles. In both you will learn about fundamental principles of persuasion, targeting, advocacy work and how these two distinct but related fields work with audiences.

**JRM 321. Advanced Reporting. 3 credits.**

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 credits. FA**

The course explores the art of writing numerous types of features for newspapers and magazines including personality profiles, in-depth examinations of issues and problems, reviews, columns, editorials and humor. Course will stress research, writing and analytical skill development. Students also learn free-lance writing techniques and methods. P: JRM 219 or IC.

**JRM 323. Principles of Public Relations. 3 credits.**

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 326. Sportswriting. 3 credits. SP**

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 incorporation multimedia. P: JRM 219.

**JRM 327. Social Media. 3 credits. FA, SP, SU**

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 credits. FA, SP**

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 credits. FA, SP**

The course surveys mass media in America and its role in society from the forerunners of the newspaper, to contemporary newspapers and magazines, the development of broadcasting and cable and current trends in electronic and print media. P: Soph. stdg.

**JRM 341. Public Relations Writing. 3 credits. SP, SU**

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 315 or IC.

**JRM 347. Advertising Campaigns I. 3 credits. FA, SU**

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 credits. FA**

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 credits. FA, SP, SU**

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 424. Typography & Advanced Projects. 3 credits.**

The course is an intense examination of the use of typography in both historical and modern contexts. Students will learn effective ways to utilize type in a variety of digital and print media, with lectures in aesthetic, strategic and technical use of final projects that will showcase the strategic use of appropriate custom digital and hand-rendered typography. P: GDE 380.

**JRM 433. Advertising Copy Writing. 3 credits. FA**

The course explores techniques in writing advertising copy for all media using practical assignments. P: JRM 313 or 323.

**JRM 438. Media Ethics. 3 credits. FA, SP, SU**

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 credits. FA, SP, SU**

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 credits. SP**

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 credits. FA, SP, SU (Same as GDE 455)**

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 credits. FA, SP**

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 credits.**

Students will gain professional experience in graphic design through working in supervised graphic design jobs. Graded Satisfactory/Unsatisfactory. P: GDE 380 and IC.

**JRM 481. Broadcast and Video Internship. 1-3 credits.**

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. 1-3 credits. FA, SP, SU**

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. New Internship. 1-3 credits. FA, SP, SU**

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 credits. FA, SP, SU**

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 credits. FA, SP, SU (Same as GDE 493)**

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 credits.**

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 credits. FA, SP, SU**

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.

**JRM 599. Entrepreneurial Media. 3 credits.**

This project-based capstone is for journalism seniors in the news, advertising, public relations tracks. The course explores entrepreneurship and innovation in a media landscape that is constantly evolving. The course focuses on concepts of entrepreneurship and new media business models. Each student research, design and pitch an entrepreneurial idea that integrates content from his or her major courses with new content on entrepreneurship. P: Sr. stdg. or IC.

## B.A., Graphic Design and Media: Graphic Design Track

### B.A., Major in Graphic Design and Media: Graphic Design Track Requirements: 41 Credits

**Journalism, Media and Computing Common Core**

CSC 121	Computers and Scientific Thinking	3
GDE 382	Web Design	3

JRM 215	Introduction to Mass Communication Technology	2
JRM 219	Media Writing	3
or JRM 220	Professional Writing	
Select one of the following:		3
JRM 599	Entrepreneurial Media	
GDE 599	Senior Capstone	
CSC 599	Senior Capstone	
<b>Graphic Design and Media Major Common Core</b>		
GDE 380	Graphic Design I	3
GDE 370	Video and Photojournalism	3
GDE 374	Digital Video	3
JRM 335	History of American Mass Media	3
<b>Graphic Design Track</b>		
JRM 327	Social Media	3
GDE 300	Concept Sketch Development	3
GDE 423	Interactive Multimedia Design	3
GDE 424	Typography and Advanced Projects	3
GDE 381	Graphic Design II	3
or GDE 385	Computer Illustration	
Total Credits		41

## **B.A., Graphic Design and Media: Multi-Media and Photojournalism Track**

### **B.A., Major in Graphic Design and Media: Multi-Media & Photojournalism Track Requirements: 41 Credits**

#### **Journalism, Media and Computing Common Core**

CSC 121	Computers and Scientific Thinking	3
GDE 382	Web Design	3
JRM 215	Introduction to Mass Communication Technology	2
JRM 219	Media Writing	3
or JRM 220	Professional Writing	
Select one of the following:		3
JRM 599	Entrepreneurial Media	
GDE 599	Senior Capstone	
CSC 599	Senior Capstone	

#### **Graphic Design and Media Major Common Core**

GDE 380	Graphic Design I	3
GDE 370	Video and Photojournalism	3
GDE 374	Digital Video	3

JRM 335	History of American Mass Media	3
<b>Multi-Media &amp; Photojournalism Track</b>		
JRM 529	Law of Mass Communication	3
JRM 438	Media Ethics	3
GDE 375	Photojournalism I	3
GDE 376	Photojournalism II: Picture Editing	3
Select one of the following:		3
GDE 377	Photojournalism III: Editorial Illustration	
JRM 477	Advanced News Production	
Total Credits		41

## B.A., Journalism: Advertising Track

### B. A., Major in Journalism:Advertising Track Requirements: 41 Credits

#### Journalism, Media and Computing Common Core

CSC 121	Computers and Scientific Thinking	3
GDE 382	Web Design	3
JRM 215	Introduction to Mass Communication Technology	2
JRM 219	Media Writing	3
or JRM 220	Professional Writing	
Select one of the following:		3
JRM 599	Entrepreneurial Media	
GDE 599	Senior Capstone	
CSC 599	Senior Capstone	

#### Journalism Major Common Core

JRM 335	History of American Mass Media	3
JRM 438	Media Ethics	3
JRM 529	Law of Mass Communication	3
<b>Advertising Track</b>		
JRM 315	Public Relations and Advertising Principles	3
JRM 327	Social Media	3
JRM 347	Advertising Campaigns I	3
JRM 433	Advertising Copy Writing	3
JRM 440	Media Research	3
GDE 380	Graphic Design I	3

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Total Credits		41
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## B.A., Journalism: News Track

### B. A., Major in Journalism:News Track Requirements: 41 Credits

#### Journalism, Media and Computing Common Core

CSC 121	Computers and Scientific Thinking	3
GDE 382	Web Design	3
JRM 215	Introduction to Mass Communication Technology	2
JRM 219	Media Writing	3
or JRM 220	Professional Writing	
Select one of the following:		3
JRM 599	Entrepreneurial Media	
GDE 599	Senior Capstone	
CSC 599	Senior Capstone	

#### Journalism Major Common Core

JRM 335	History of American Mass Media	3
JRM 438	Media Ethics	3
JRM 529	Law of Mass Communication	3

#### News Track

JRM 327	Social Media	3
JRM 331	Editing	3
GDE 380	Graphic Design I	3
JRM 477	Advanced News Production	3
GDE 370	Video and Photojournalism	3
Select one of the following:		3
JRM 321	Advanced Reporting	
JRM 322	Feature Writing	
JRM 326	Sportswriting	

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 Total Credits

41

## B.A., Journalism: Public Relations Track

### B. A., Major in Journalism:Public Relations Track Requirements: 41 Credits

#### Journalism, Media and Computing Common Core

CSC 121	Computers and Scientific Thinking	3
GDE 382	Web Design	3
JRM 215	Introduction to Mass Communication Technology	2
JRM 219	Media Writing	3
or JRM 220	Professional Writing	

Select one of the following:		3
JRM 599	Entrepreneurial Media	
GDE 599	Senior Capstone	
CSC 599	Senior Capstone	
<b>Journalism Major Common Core</b>		
JRM 335	History of American Mass Media	3
JRM 438	Media Ethics	3
JRM 529	Law of Mass Communication	3
<b>Public Relations Track</b>		
JRM 315	Public Relations and Advertising Principles	3
JRM 327	Social Media	3
JRM 331	Editing	3
JRM 341	Public Relations Writing	3
JRM 440	Media Research	3
GDE 370	Video and Photojournalism	3
Total Credits		41

## B.S., Computer Science and Informatics: Computing Science Track

### B.S., Major in Computer Science and Informatics: Computing Science Track Requirements: 41 Credits

<b>Journalism, Media and Computing Common Core</b>		
CSC 121	Computers and Scientific Thinking	3
GDE 382	Web Design	3
JRM 215	Introduction to Mass Communication Technology	2
JRM 219	Media Writing	3
or JRM 220	Professional Writing	
Select one of the following:		3
JRM 599	Entrepreneurial Media	
GDE 599	Senior Capstone	
CSC 599	Senior Capstone	
<b>Computer Science &amp; Informatics Major Common Core</b>		
CSC 221	Introduction to Programming	3
CSC 222	Object-Oriented Programming	3
<b>Computing Science Track</b>		
CSC 321	Data Structures	3
CSC 414	Introduction To Computer Organization	3
CSC 421	Algorithm Design and Analysis	3

CSC 533	Programming Languages	3
CSC 548	Software Engineering	3
CSC Electives 400-level or above		6
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Total Credits		41

Note: A maximum of 3 credits of CSC 493 Directed Independent Readings, CSC 495 Directed Independent Study, CSC 497 Directed Independent Research, and CSC 499 Directed Internship may be applied to the major.

## **B.S., Computer Science and Informatics: Digital Development Track**

### **B.S., Major in Computer Science and Informatics: Digital Development Track Requirements: 41 Credits**

#### **Journalism, Media and Computing Common Core**

CSC 121	Computers and Scientific Thinking	3
GDE 382	Web Design	3
JRM 215	Introduction to Mass Communication Technology	2
JRM 219	Media Writing	3
or JRM 220	Professional Writing	
Select one of the following:		3
JRM 599	Entrepreneurial Media	
GDE 599	Senior Capstone	
CSC 599	Senior Capstone	

#### **Computer Science & Informatics Major Common Core**

CSC 221	Introduction to Programming	3
CSC 222	Object-Oriented Programming	3

#### **Digital Development Track**

CSC 551	Web Programming	3
CSC 581	Mobile App Development	3
CSC Elective 300-level or above		3
GDE 374	Digital Video	3
GDE 380	Graphic Design I	3
GDE 423	Interactive Multimedia Design	3
JRM 327	Social Media	3
or JRM 438	Media Ethics	

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Total Credits		41

Note: A maximum of 3 credits of CSC 493 Directed Independent Readings, CSC 495 Directed Independent Study, CSC 497 Directed Independent Research, and CSC 499 Directed Internship may be applied to the major.

# Justice and Peace Studies

Program Director: Roger Bergman

Program Office: Creighton Hall, Room 440A

The Justice and Peace Studies Program offers a minor and, with the Department of Sociology, Anthropology, and Social Work, a major in Justice and Society (p. 478). Both minor and major consist of an interdisciplinary series of courses integrating community service, analysis, and reflection in the context of a faith that does justice and seeks a more peaceful world.

## Minor in Justice and Peace Studies

- Justice and Peace Studies (p. 350)

## Courses

### **JPS 265. Cortina Seminar. 1 credit. SP**

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 credits. SU (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 (Gaudium et Spes no. 4).

### **JPS 361. Social Justice in the Dominican Republic. 6 credits. FA, SP (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 credit. FA, SP (Same as THL 365)**

A series of three one-credit-hour 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: JPS/PHL/THL 250 and Jr. stdg.

### **JPS 375. Advanced Cortina Seminar. 1 credit.**

JPS 375 is a one-credit seminar for junior and senior participants in the Cortina Community on the theme of Social Justice and Public Policy. Students will learn about the policy making process so that they can analyze policies that contribute to various social injustices and help develop more just alternatives. P: JPS 265.

### **JPS 465. Faith and Political Action. 3 credits. 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 credits. (Same as EDU 470, SRP 470)**

The intent of this summer travel course is to provide students with an understanding of the cultural, economic and political structures of an impoverished community in Appalachia, 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 credits. OD**

Offered especially JAS majors but open to any interested student. May be repeated to a limit of 6 hours. P: IC.

**JPS 499. Senior Seminar. 3 credits. SP**

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 credits. SP (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 credits. FA (Same as THL 588)**

Introduction to the development and application of Christian ethical perspectives on the use of lethal force from the biblical period to the present day. Just war theory and pacifism in both Catholic and Protestant traditions. 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.

## Justice and Peace Studies Minor

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.”

### Minor in Justice and Peace Studies Requirements: 18 Credits

JPS 365	Faith And Moral Development <sup>1</sup>	3
JPS 565	Catholic Social Teaching	3
JPS 588	Christian Ethics Of War And Peace	3
JPS 499	Senior Seminar	3
<b>Service Learning <sup>2</sup></b>		
Select one of the following:		3
JPS 343	Ecclesiology in Global Context	
JPS 361	Social Justice in the Dominican Republic <sup>3</sup>	

JPS 465	Faith and Political Action	
JPS 470	Poverty in America	
SWK 261	Social Welfare Needs of Vulnerable Populations:Exploring Helping Role from Social Work Perspective	
THL 343	Ecclesiology in Global Context	
<b>Social Science</b>		
Select one of the following:		3
ECO 203	Introductory Microeconomics	
PLS 435	Global Poverty and Development	
PLS 481	Poverty, Development and Public Policy	
SOC 102	Introduction to Sociology: Social Problems	
SOC 341	American Cultural Minorities	
SOC 355	Environment and Society: Sociological Perspectives	
SOC 411	Social Inequality and Stratification	
SRP 465	Faith and Political Action	
Total Credits		18

- Members of the Cortina Community can substitute one credit of JPS 265 Cortina Seminar toward JPS 365 Faith And Moral Development.
- Sections of PHL 250 Philosophical Foundations For Ethical Understanding and THL 250 Theological Foundations for Ethical Understanding offered exclusively for members of the Cortina Community satisfy the JPS service learning requirement.
- If JPS 361 Social Justice in the Dominican Republic is taken to fulfill the Service Learning component, Social Science is not required.

## Justice and Society

Program Director: Roger Bergman  
 Program Office: Creighton Hall, Room 440A

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 may be completed with a Sociology, Anthropology, or Criminal Justice focus.

### Major in Justice and Society

#### Specific Requirements for Admission to the Justice and Society Major

Completion of SOC 101 Introduction to Sociology: Self and Society, SOC 102 Introduction to Sociology: Social Problems, ANT 111 Introduction to Anthropology: Human and Cultural Diversity or NAS 101 Introduction To Native American Studies: Anthropological Approaches 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 (p. 353)

## Courses

### **JPS 265. Cortina Seminar. 1 credit. SP**

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 credits. SU (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 (Gaudium et Spes no. 4).

### **JPS 361. Social Justice in the Dominican Republic. 6 credits. FA, SP (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 credit. FA, SP (Same as THL 365)**

A series of three one-credit-hour 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: JPS/PHL/THL 250 and Jr. stdg.

### **JPS 375. Advanced Cortina Seminar. 1 credit.**

JPS 375 is a one-credit seminar for junior and senior participants in the Cortina Community on the theme of Social Justice and Public Policy. Students will learn about the policy making process so that they can analyze policies that contribute to various social injustices and help develop more just alternatives. P: JPS 265.

### **JPS 465. Faith and Political Action. 3 credits. 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 credits. (Same as EDU 470, SRP 470)**

The intent of this summer travel course is to provide students with an understanding of the cultural, economic and political structures of an impoverished community in Appalachia, 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 credits. OD**

Offered especially JAS majors but open to any interested student. May be repeated to a limit of 6 hours. P: IC.

### **JPS 499. Senior Seminar. 3 credits. SP**

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 Ignatian tradition. P: Sr. stdg.

**JPS 565. Catholic Social Teaching. 3 credits. SP (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 credits. FA (Same as THL 588)**

Introduction to the development and application of Christian ethical perspectives on the use of lethal force from the biblical period to the present day. Just war theory and pacifism in both Catholic and Protestant traditions. 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.

## B.A., Major in Justice and Society

### B. A., Major in Justice and Society Requirements: 37 Credits

**Sociology/Anthropology**

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

**Justice and Peace Studies**

JPS 365	Faith And Moral Development <sup>1</sup>	3
JPS 499	Senior Seminar	3
JPS 565	Catholic Social Teaching	3
JPS 588	Christian Ethics Of War And Peace	3

**Service Learning <sup>2</sup>**

Select one of the following:		3-6
JPS 343	Ecclesiology in Global Context	
JPS 361	Social Justice in the Dominican Republic	
JPS 465	Faith and Political Action	
JPS 470	Poverty in America	
SWK 261	Social Welfare Needs of Vulnerable Populations:Exploring Helping Role from Social Work Perspective	
THL 343	Ecclesiology in Global Context	

**Elective Courses**

Select one of the following:		3
ANT 111	Introduction to Anthropology: Human and Cultural Diversity	
NAS 101	Introduction To Native American Studies: Anthropological Approaches	
SOC 101	Introduction to Sociology: Self and Society	
SOC 102	Introduction to Sociology: Social Problems	
Select six additional elective credits in SOC and/or ANT chosen in consultation with the JAS Director, plus one of the following:		9
ECO 203	Introductory Microeconomics	

EDP 361	Social Justice in the Dominican Republic
PHL 348	Philosophy of Feminism
PHL 358	Social And Political Philosophy
PLS 333	Environmental Politics And Policy
PLS 435	Global Poverty and Development
PSY 428	Multicultural Issues in Psychology
SRP 435	Literature, Philosophy and Economics: Critical Representations of Commercial Life
SRP 465	Faith and Political Action
SRP 470	Poverty in America
SRP 481	Poverty, Development and Public Policy
SWK 261	Social Welfare Needs of Vulnerable Populations: Exploring Helping Role from Social Work Perspective

Total Credits

37-40

- 1 Members of the Cortina Community can substitute one credit of JPS 265 Cortina Seminar toward JPS 365 Faith And Moral Development.
- 2 Sections of PHL 250 Philosophical Foundations For Ethical Understanding and THL 250 Theological Foundations for Ethical Understanding offered exclusively for members of the Cortina Community satisfy the JAS service learning requirement.

## Mathematics

Chair: Randall Crist

Department Office: Eppley, Room 326

Mathematics is the study of quantity and space and the symbolism associated with them.

### Majors 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 Calculus I or MTH 246 Calculus II or its equivalent.

- B.S., Major in Mathematics (p. 361)
- B.S. Mth., Major in Mathematics: Pure Mathematics Track (p. 361)
- B.S. Mth., Major in Mathematics: Medical Mathematics Track (p. 360)

### Minors in Mathematics

- Mathematics (p. 362)
- Mathematical Logic (p. 362)

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.

## Associate Degree in the College of Professional Studies

This department offers the following associate degree to students in the College of Professional Studies:

- Mathematics (p. 586)

## Certificate Program in the College of Professional Studies

This department offers the following certificate program to students in the College of Professional Studies:

- Mathematics (p. 614)

## Courses

### **MTH 103. Intermediate Algebra. 3 credits. FA, SP, SU**

Topics from second-year algebra to form an introduction to college algebra.

### **MTH 105. Math for Elementary Teachers. 3 credits.**

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 credits.**

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 credits. FA, 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 139. Precalculus. 3 credits. FA, SP**

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 credits. FA, SP, SU**

Main topic is differential and integral calculus and applications. Includes sections on partial derivatives. Course designed primarily for students in the Heider College of Business and Core credit is for BSBA students only.

### **MTH 201. Applied Mathematics. 3 credits. FA, SP, SU**

Foundations of quantitative reasoning, applications of systems of equations, optimization techniques, probability, and statistics.

**MTH 205. Mathematics for the Modern World. 2 credits.**

Foundations course in mathematics for those not needing calculus. Topics include basic number theory, graphs, estimation, data analysis and curve fitting, probability and analysis of risk, and fairness in voting systems.

**MTH 245. Calculus I. 4 credits. FA, SP, SU**

Differential and integral calculus of algebraic and transcendental functions.

**MTH 246. Calculus II. 4 credits. FA, SP, SU**

Techniques of integration, infinite series, and other topics. P: MTH 245.

**MTH 249. Modeling the Physical World I. 3 credits.**

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. This course is equivalent to MTH 246. P: MTH 245. CO: PHY 221.

**MTH 310. Fundamentals of Mathematics. 3 credits. FA, SP**

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 credits. FA, SP**

This course covers vector algebra and calculus in two- and three-dimensional space. P: MTH 246 or 249.

**MTH 349. Modeling the Physical World II. 3 credits.**

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 credits. (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 credits. SP**

Non-calculus approach with emphasis on measures of central tendency and variability, distributions and testing of hypothesis. Designed for students in natural and social sciences, or business.

**MTH 431. Mathematical History, Philosophy And Ethics. 3 credits. 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 credits. FA, SP**

May be repeated to a limit of six hours. P: DC.

**MTH 495. Directed Independent Study. 1-3 credits. FA, SP**

May be repeated to a limit of six hours. P: DC.

**MTH 497. Directed Independent Research. 1-3 credits. FA, SP**

May be repeated to a limit of six hours. P: DC.

**MTH 509. Discrete Structures. 3 credits.**

Logic; Boolean algebra; switching circuits; graphs; groups; semi-groups; finite state machines; coding theory; grammars; algorithms. P: CSC 221; 6 hrs. college MTH.

**MTH 513. Probability And Statistics In The Health Sciences. 3 credits. FA (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 205 or 245 or 249.

**MTH 521. Euclidean And Non-Euclidean Geometry. 3 credits. OD**

Basic geometric concepts and applications. P: MTH 246.

**MTH 525. Automata, Computability, and Formal Languages. 3 credits. OD**

Finite state concepts; acceptors; formal grammars; computability; Turing machines. P: MTH 246.

**MTH 529. Linear Algebra. 3 credits. SP**

Vector spaces and subspaces; linear transformations; matrices, eigenvalues and eigenvectors. P: MTH 246 or 249.

**MTH 543. Numerical Analysis. 3 credits. 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 credits. FA, SU**

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 credits.**

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 credits. SP**

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 credits. 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 credits.**

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 credits. OD**

Set theory; metric space; topological spaces; connectedness; compactness; selected related topics. P: MTH 246.

**MTH 561. Mathematical Statistics I. 3 credits. FA, SU (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 credits. SP (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 credits. 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 credits. 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. Fuzzy Logic. 3 credits. (Same as DTS 572)**

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 MTH 245.

**MTH 573. Probabilistic Models. 3 credits. OD**

Queueing theory, inventory theory, Markov processes, simulation and nonlinear programming. P: MTH 561.

**MTH 575. Introductory Stochastic Processes. 3 credits. 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 credits. FA**

Groups, rings; fields; applications to coding theory. P: MTH 310.

**MTH 582. Modern Algebra II. 3 credits. OD**

Rings; ideals; field extensions; Galois theory; applications to coding theory. P: MTH 581.

**MTH 583. Fuzzy Mathematics: Applications In Health Sciences. 3 credits. SP**

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 credits. SP**

Properties of Euclidean spaces and their applications to functions. P: MTH 310.

**MTH 592. Analysis II. 3 credits. OD**

Continuation of MTH 591; functions in metric space. P: MTH 591.

**MTH 593. Complex Analysis. 3 credits. 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 credits. OD**

Topics in advanced mathematics selected by the instructor. P: IC.

**STA 355. Essentials of Epidemiology. 3 credits. (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. 1-3 credits.**

May be repeated to a limit of six hours.

**STA 495. Directed Independent Study. 1-3 credits.**

May be repeated to a limit of six hours.

**STA 497. Directed Independent Research. 1-6 credits.**

May be repeated to a limit of six hours.

**STA 499. Senior Thesis: Supervised Consulting. 1-3 credits.**

May be repeated to a limit of six hours. P: DC.

**STA 513. Probability And Statistics In The Health Sciences. 3 credits. FA (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 246.

**STA 521. Computational Methods In Statistics. 3 credits. 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 credits. OD**

Applications of nonparametric estimates, confidence, intervals, tests, and multiple comparison procedures. P: A course in statistics.

**STA 527. Sample Surveys. 3 credits. 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 credits. FA (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 credits. SP (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 credits. 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 credits. 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 credits. 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 credits. 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 credits. OD**

Queuing theory, inventory theory, Markov processes, simulation, and nonlinear programming. P: STA 561.

**STA 575. Introductory Stochastic Processes. 3 credits. 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 credits. 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 credits. OD**

Forecasting; Box-Jenkins models; time series; regression; exponential smoothing; transfer function models; auto covariance functions. P: STA 561.

## **B.S. Mth., Major in Mathematics: Medical Mathematics Track**

### **B.S. Mth., Major in Mathematics: Medical Mathematics Track Requirements: 21-33 Credits**

MTH 310	Fundamentals of Mathematics	3
MTH 347	Calculus III	3
MTH 513	Probability And Statistics In The Health Sciences	3
MTH 529	Linear Algebra	3
MTH 545	Differential Equations	3
MTH 547	Mathematics In Medicine And The Life Sciences	3

MTH 571	Operations Research	3
Total Credits		21

## Requisite Courses

MTH 581 Modern Algebra I or MTH 591 Analysis I 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 Genetics, CHM 341 Physical Chemistry I, MTH 583 Fuzzy Mathematics: Applications In Health Sciences.

## B.S. Mth., Major in Mathematics: Pure Mathematics Track

### B.S. Mth., Major in Mathematics: Pure Mathematics Track Requirements: 21-33 Credits

The B.S.Mth. degree is recommended to students wishing to pursue graduate study in mathematics.

MTH 310	Fundamentals of Mathematics	3
MTH 347	Calculus III	3
MTH 529	Linear Algebra	3
MTH 545	Differential Equations	3
MTH 581	Modern Algebra I	3
MTH 591	Analysis I	3
Select fifteen additional 400-500-level credits in mathematics.		15
Up to six 300-500-level computer science or statistics credits may be substituted for 500-level mathematics courses.		
Total Credits		33

## Requisite Courses

MTH 581 Modern Algebra I or MTH 591 Analysis I 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 Genetics, CHM 341 Physical Chemistry I, MTH 583 Fuzzy Mathematics: Applications In Health Sciences.

## B.S., Major in Mathematics

### B.S., Major in Mathematics Requirements: 21 Credits

#### Course Requirements

MTH 310	Fundamentals of Mathematics	3
MTH 347	Calculus III	3
MTH 529	Linear Algebra	3
MTH 545	Differential Equations	3
MTH 581	Modern Algebra I	3

MTH 591	Analysis I	3
Select three additional 500-level credits arranged with department approval.		3
Total Credits		21

## Requisite Courses

Twelve 300-500-level credits (approved by the major advisor) in one or more departments (which could include mathematics).

## Mathematical Logic Minor

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.

### Minor in Mathematical Logic Requirements: 19 Credits

MTH 245	Calculus I	4
MTH 310	Fundamentals of Mathematics	3
PHL 312	Symbolic Logic	3
MTH 572	Fuzzy Logic	3
Select two of the following:		6
PHL 201	Introduction to Logic	
PHL 469	Contemporary Analytic Philosophy	
MTH 581	Modern Algebra I	
MTH 583	Fuzzy Mathematics: Applications In Health Sciences	
MTH 591	Analysis I	
Total Credits		19

## Mathematics Minor

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.

### Minor in Mathematics Requirements: 18 Credits

MTH 245	Calculus I	4
MTH 246	Calculus II	4

MTH 529	Linear Algebra	3
MTH 545	Differential Equations	3
Select two additional MTH courses numbered 300 or above.		4
Total Credits		18

## Military Science

Chair: Jared Sutton

Department Office: Military Science Building, Room 110

The Army Reserve Officers' Training Corps (ROTC), Blackwolves Battalion 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.

## Military Science Minor

- Military Science (p. 368)

## Courses

### **MIL 100. Leadership Laboratory. 0 credits.**

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 170, MIL 102, and MIL 103. May be repeated one time.

**MIL 101. Introduction To Officer Professionalism I. 1 credit. FA**

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 the Profession of Army. 1 credit. SP**

Students will learn how the personal development of life skills such as cultural understanding, goal setting, time management, stress management, and comprehensive fitness relate to leadership, officership, and the Army profession. The focus is on developing basic knowledge and comprehension of Army leadership dimensions, attributes, and core leader competencies while gaining an understanding of the ROTC program, its purpose in the Army, and its advantages for the student.

**MIL 103. Foundations Of Officership And Basic Leadership. 2 credits.**

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 170. Critical Thinking and Communication in the Army. 1 credit.**

Students are introduced to the personal challenges and competencies that are critical for effective leadership and communication. The focus is on critical and creative thinking, written and oral communication, and engagement with diversity and social justice.

**MIL 200. Leadership Laboratory II. 0 credits.**

This second-year leadership laboratory parallels MIL 201/MIL 202 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 201, MIL 202, MIL 213. May be repeated one time.

**MIL 201. Foundations of Leadership. 2 credits.**

This course explores the dimensions of creative and innovative tactical leadership strategies and styles by examining team dynamics and two historical leadership theories that form the basis of the Army leadership framework. Aspects of personal motivation and team building are practiced: planning, executing and assessing team exercises. While participation in the leadership labs is not mandatory during the MSL II year, significant experience can be gained in a multitude of areas and participation in the labs is highly encouraged. The focus continues to build on developing knowledge of the leadership attributes and core leader competencies through the understanding of Army rank, structure, and duties as well as broadening knowledge of land navigation and squad tactics. P: MIL 170 and MIL 102 or DC.

**MIL 2015. Cadet Initial Entry Training. 3 credits.**

The focus of this course is to assimilate Cadets into the Army as well as immerse them in large group leadership opportunities. The training is conducted 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 Cadet Initial Entry Training. 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 202. Foundations of Tactical Leadership. 2 credits.**

This course examines the challenges of leading teams in the complex operational environment. The course highlights dimensions of terrain analysis, patrolling, and operation orders. Further study of the theoretical basis of the Army Leadership Requirements Model explores the dynamics of adaptive leadership in the context of military operations. Cadets develop greater self-awareness as they assess their own leadership styles and practice communication and team building skills.

**MIL 205. ROTC Leadership Training Course. 3 credits. SU**

Six weeks of preparatory training at Fort Knox, Kentucky. Travel pay and salary stipend provided through the Military Science Department. The student is not obligated to any military service as a result of attending Leadership Training 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 credits. FA**

This course is designed to train students for local and regional competition in such areas as leadership, physical endurance, basic soldier skills, and small-unit tactics.

**MIL 208. Advanced Army Ranger Training. 2 credits. SP**

This course is designed to train students for local and regional competition in such areas as leadership, physical endurance, basic soldier skills, and small-unit tactics.

**MIL 211. Basic Individual Leadership Techniques. 2 credits. FA**

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. 2 credits. SP**

Continues the development of student leadership and critical individual military skills. Training focuses on advanced military skills and includes orienteering, field survival skills, operation and training. P: MIL 211.

**MIL 213. Military Science And Leadership. 2 credits.**

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 credits. FA, SP**

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 credits.**

This laboratory parallels MIL 301/MIL 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. Required with enrollment in MIL 301 and MIL 302. May be repeated one time.

**MIL 301. Adaptive Team Leadership. 3 credits.**

Successful completion of this course will help prepare you for success at the ROTC Leader Development and Assessment Course (LDAC) which you will attend next summer at Fort Knox, Kentucky. This course includes reading assignments, homework assignments, small group assignments, briefings, case studies, and practical exercises, a mid-term exam, and a final exam. P: MIL 201, MIL 202 or MIL 213 or DC.

**MIL 302. Advanced Team Leadership. 3 credits.**

This is an academically challenging course where you will study, practice, and apply the fundamentals of Army Leadership, Officership, Army Values and ethics, personal development, and small unit tactics at the team and squad level. At the conclusion of this course, you will be capable of planning, coordinating, navigating, motivating and leading a team or squad in the execution of a tactical mission during a classroom PE, a Leadership Lab, or during a Situational Training Exercise (STX) in a field environment. You will receive systematic and specific feedback on your leader attributes values and core leader competencies from your instructor and other ROTC cadre and MSL IV Cadets who will evaluate you using the ROTC Leader Development Program (LDP) model. P: MIL 301.

**MIL 351. Cadet Leadership Course. 3 credits. SU**

Cadets attend intensive leader and management training. The training is conducted during the summer months between the junior and senior years at Fort Knox, Kentucky. The student's ability to demonstrate followership, mental agility, empathy, and all other Officer traits are 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 credits. SU**

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 MIL 302, DC.

**MIL 400. Leadership Laboratory IV. 1 credit.**

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. Mission Command and Advanced Leadership. 2 credits.**

This course explores the dynamics of leading in the complex situations of current military operations. Students will examine differences in customs and courtesies, military law, principles of war, and rules of engagement in the face of international terrorism. You also explore aspects of interacting with non-government organizations, civilians on the battlefield, the decision making processes and host nation support. The course places significant emphasis on prepaing you for BOLC B and your first unit of assignment.

**MIL 402. Military Management Seminar. 2 credits. SP**

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 credits. FA, SP**

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 credits. FA**

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 credits. SP**

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.

## Army ROTC Military Science

### Army ROTC Military Science Course Requirements (20-21 Credits)

#### Army ROTC Military Science Basic Courses

Nursing Students Only		4
MIL 103	Foundations Of Officership And Basic Leadership	
MIL 213	Military Science And Leadership	
All Other Students		6
MIL 1 year:		
MIL 100	Leadership Laboratory	0
MIL 101	Introduction To Officer Professionalism I	1
MIL 102	Introduction to the Profession of Army	1
MIL II year:		
MIL 200	Leadership Laboratory II	0
MIL 211	Basic Individual Leadership Techniques	2
MIL 212	Advanced Individual Leadership Techniques	2

#### Army ROTC Military Science Advanced Courses

Nursing Students Only		3
MIL 352	ROTC Nurse Summer Training	
All Students		17
MIL 300	Leadership Laboratory III	
MIL 301	Adaptive Team Leadership	
MIL 302	Advanced Team Leadership	
MIL 351	Cadet Leadership Course	

HIS 393	United States Military History
MIL 400	Leadership Laboratory IV
MIL 401	Mission Command and Advanced Leadership
MIL 402	Military Management Seminar
Optional Courses	
MIL 207	Fundamentals Of Army Ranger Training
MIL 208	Advanced Army Ranger Training
MIL 215	United States Military History
MIL 493	Directed Independent Readings
MIL 494	Directed Independent Study And Seminar I
MIL 495	Directed Independent Study And Seminar II
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Total Credits	36

## Military Science Minor

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.

### Minor in Military Science Requirements: 18 Credits

MIL 301	Adaptive Team Leadership
MIL 302	Advanced Team Leadership
MIL 351	Cadet Leadership Course
MIL 401	Mission Command and Advanced Leadership
MIL 402	Military Management Seminar
MIL 215	United States Military History
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Total Credits	0

## Modern Languages and Literatures

Chair: Julian Arribas

Department Office: Humanities Center, Room 216

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.

## Majors in Modern Languages and Literatures

- B.A., Major in French and Francophone Studies (p. 386)
- B.A., Major in German Studies (p. 387)
- B.A., Major in Spanish and Hispanic Studies: Professional Track (p. 390)
- B.A., Major in Spanish and Hispanic Studies: Literary Track (p. 388)

## Minors in Modern Languages and Literatures

- French and Francophone Studies (p. 392)
- German Studies (p. 393)
- Italian (p. 394)
- Spanish and Hispanic Studies (p. 395)

Students who think they may teach French or 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.

## Courses

### **ARA 101. Elementary Modern Standard Arabic I. 3 credits. FA**

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 credits. SP**

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 111. Beginning Arabic for Daily Life I. 4 credits.**

This course introduces students to the language by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where Arabic is spoken.

### **ARA 112. Beginning Arabic for Daily Life II. 4 credits.**

This course continues to develop the language-learning process by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where Arabic is spoken. P: ARA 111 or placement.

### **ARA 115. Intensive Beginning Arabic. 6 credits. SU**

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 credits. FA**

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. Not open to native speakers of the language. P: ARA 102 or ARA 115.

**ARA 225. Intermediate Arabic. 3 credits.**

This course is designed to help students make the transition to natural communication and develop the language-learning process by focusing on the expansion of necessary elements for development of the practical language skills (listening, speaking, reading, and writing) by using cultural and literary readings as well as grammatical exercises. It also provides a broader awareness of and appreciation for the cultures of the countries where Arabic is spoken. P: ARA 112 or equivalent.

**CHN 101. Beginning Chinese I. 3 credits.**

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 credits.**

Continuation of CHN 101. P: CHN 101 or equivalent.

**CHN 111. Beginning Chinese for Daily Life I. 4 credits.**

This course introduces students to the language by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where Chinese is spoken.

**CHN 112. Beginning Chinese for Daily Life II. 4 credits.**

This course continues to develop the language-learning process by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where Chinese is spoken. P: CHN 111 or equivalent.

**CHN 201. Intermediate Chinese I. 3 credits.**

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 credits.**

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.

**CHN 225. Intermediate Chinese. 3 credits.**

This course is designed to help students make the transition to natural communication and develop the language-learning process by focusing on the expansion of necessary elements for development of the practical language skills (listening, speaking, reading, and writing) by using cultural and literary readings as well as grammatical exercises. It also provides a broader awareness of and appreciation for the cultures of the countries where Chinese is spoken. P: CHN 112 or equivalent.

**CHN 313. Contemporary Chinese Culture. 3 credits.**

This course is designed to introduce students to Chinese culture and civilization in English translation. Highlights of ancient, modern and contemporary historical periods will be introduced, as well as selected readings. Students will acquire a broader knowledge of Chinese culture and civilization by examining pieces of Chinese literature, music, film, religion, ethnicity and food, and environment. The course will also explore processes of change and continuity in China, and exam the complexity of social issues and dynamics of cultural unity and diversity. This course is conducted in English.

**CHN 495. Directed Independent Study. 1-3 credits.**

Repeatable up to 3 credits. P: IC.

**FRN 102. Beginning French II. 3 credits. FA, SP**

Continuation of FRN 101. P: FRN 101 or equivalent.

**FRN 111. Beginning French for Daily Life I. 4 credits.**

This course introduces students to the language by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where French is spoken.

**FRN 112. Beginning French for Daily Life II. 4 credits.**

This course continues to develop the language-learning process by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where French is spoken. P: FRN 111 or equivalent.

**FRN 115. Intensive Beginning French. 6 credits. SU**

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 credits. FA, SP**

Course designed to help students make the transition to natural communication and to develop further all four language skills (listening, speaking, reading and writing), by using literary/cultural readings and grammatical exercises. P: FRN 102 or FRN 115 or equivalent.

**FRN 202. Intermediate French II. 3 credits. FA, SP**

Development of a more advanced ability in reading, speaking, listening and writing in French. P: FRN 201 or equivalent.

**FRN 225. Intermediate French. 3 credits.**

This course is designed to help students make the transition to natural communication and develop the language-learning process by focusing on the expansion of necessary elements for development of the practical language skills (listening, speaking, reading, and writing) by using cultural and literary readings as well as grammatical exercises. It also provides a broader awareness of and appreciation for the cultures of the countries where French is spoken. P: FRN 112 or equivalent.

**FRN 311. Advanced French I. 3 credits. FA**

Development of refined accurate expression in speaking and writing French. P: FRN 202 or equivalent.

**FRN 312. Advanced French II. 3 credits. SP**

Development of refined accurate expression in speaking and writing French. P: FRN 202 or equivalent.

**FRN 314. Business French Communication. 3 credits.**

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 credit.**

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 credits.**

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 credits.**

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 credits. FA**

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 credits. FA**

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 credits. SU**

A travel course designed to offer the novice a comprehensive introduction to the city of Paris. More advanced students will have the opportunity to concentrate on a particular topic of interest while building upon prior knowledge. P: IC only.

**FRN 530. Introduction to Literary Analysis. 3 credits. FA**

This course is designed to prepare students for upper-level French and Francophone literature courses with a focus on methods used for the interpretation of literary texts through critical and imaginative readings of poetry, theater, and prose. It thus offers a survey of the major genres, styles, and periods of French and Francophone literature. In conjunction with this exposure to important texts, students will develop the critical skills necessary for textual interpretation. P: FRN 311 or FRN 312 or IC.

**FRN 540. French Literature: Middle Ages. 3 credits.**

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 credits.**

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 credits.**

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 credits.**

A study of the texts and literary movements of 18th century France. Readings from Montesquieu, Voltaire, Diderot, Chenier, Rousseau and others. P: FRN 311 or FRN 312 or IC.

**FRN 548. French Literature: 19th Century. 3 credits.**

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 credits.**

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. La littérature francophone africaine. 3 credits.**

A survey of major classic and contemporary works by writers from Francophone Subsaharian 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 credits. (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 credits. 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 credits. FA**

Close examination and study of selected works from the Middle Ages to the present. P: FRN 311 or FRN 312 or IC.

**FRN 564. History of the French Language. 3 credits. OD**

The development of the French language; general linguistic principles, the Celtic substrata, the Latin base, the various substrata, from the earliest to modern times. P: FRN 311 or FRN 312 or IC.

**FRN 572. French Cinema. 3 credits. 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. Directed Independent Readings. 1-3 credits.**

Designed to meet the special needs of majors in French. Limit of three semester hours. P: IC only.

**FRN 595. Special Topics in French and Francophone Literature and Culture. 3 credits.**

A consideration of certain themes or issues which serve as an integrated view of French and/or Francophone literature and culture. P: FRN 530.

**FRN 599. Senior Seminar. 3 credits. SP**

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.

**GER 102. Beginning German II. 3 credits. FA, SP**

Continuation of GER 101. P: GER 101 or equivalent.

**GER 111. Beginning German for Daily Life I. 4 credits.**

This course introduces students to the language by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where German is spoken.

**GER 112. Beginning German for Daily Life II. 4 credits.**

This course continues to develop the language-learning process by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where German is spoken. P: GER 111 or equivalent.

**GER 115. Intensive Beginning German. 6 credits. SU**

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 credits. FA**

Course designed to help students make the transition to natural communication and to develop further all four language skills (listening, speaking, reading and writing) by using literary/cultural readings and grammatical exercises. P: GER 102 or GER 115 or equivalent.

**GER 202. Intermediate German II. 3 credits. SP**

Development of a more advanced ability in reading, speaking, listening and writing in German. P: GER 201 or equivalent.

**GER 225. Intermediate German. 3 credits.**

This course is designed to help students make the transition to natural communication and develop the language-learning process by focusing on the expansion of necessary elements for development of the practical language skills (listening, speaking, reading, and writing) by using cultural and literary readings as well as grammatical exercises. It also provides a broader awareness of and appreciation for the cultures of the countries where German is spoken. P: GER 112 or equivalent.

**GER 303. German Literature and Civilization I: From the Middle Ages to 1871. 3 credits. FA**

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 credits. SP**

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 301 or IC.

**GER 321. German For Business And Economics. 3 credits.**

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 credits. FA**

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 credit.**

This course is designed to improve the speaking and understanding skills of the students through practical exercises. It will include culturally authentic sources like newspapers, radio broadcasts and television excerpts from Germany. Course may be repeated for a maximum of three credits. P: GER 202 or IC.

**GER 374. History of 19th-Century Philosophy. 3 credits. 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 credits. 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 credits.**

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 credits. 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: PHL 201, PHL 250, PHL 312, or PHL 320.

**GER 493. Directed Independent Readings. 1-3 credits.**

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 credits.**

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. 1-3 credits. OD**

Intended for individual seniors who wish to conduct research and write a major paper about a topic in the field of German. Limit of three semester hours. P: IC only.

**GER 525. The New Berlin. 3 credits. SU**

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.

**GER 527. German Literature Of The 19th Century. 3 credits.**

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 credits.**

Discussion of 20th century German literary movements with special emphasis after 1945. P: One 300-level GER course or IC.

**GER 545. German "Novelle": 19th And 20th Centuries. 3 credits.**

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 credits. OD**

Students will explore the voices of marginalized groups in Germany. A variety of ethical views will be employed to evaluate the 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 study German language, literature, and film while gaining a deeper understanding of the existing relationships between Germany's main culture and the cultures of these marginalized groups. P: One 300-level GER course or IC.

**GER 572. Reading German Films. 3 credits. OD**

This course offers an introduction to the film analysis and 80 years of filmmaking in Germany. Films from the Weimar Republic to the 21st century are screened and discussed within the context of cultural and political history. The selected films, which range from silent movies to recent works by some of the world's most influential directors, present a broad spectrum of aesthetic and political perspectives that include Expressionism, Nazi propaganda, and post-unification social criticism. P: One 300-level GER course or IC.

**ITA 102. Beginning Italian II. 3 credits. FA, SP**

Continuation of ITA 101. P: ITA 101 or equivalent.

**ITA 111. Beginning Italian for Daily Life I. 4 credits.**

This course introduces students to the language by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where Italian is spoken.

**ITA 112. Beginning Italian for Daily Life II. 4 credits.**

This course continues to develop the language-learning process by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where Italian is spoken. P: ITA 111 or equivalent.

**ITA 201. Intermediate Italian I. 3 credits. FA**

This intermediate Italian course focuses on the communicative aspects of the language, and is a review of Italian grammar. Diverse readings and video material on contemporary and traditional aspects of Italian culture provide themes for conversation and writing assignments in Italian. P: ITA 102 or equivalent.

**ITA 202. Intermediate Italian II. 3 credits. OD**

This course explores two separate aspects of Italian. The first aspect is a comprehensive review of the verb system, with a special focus on the uses of the subjunctive mood. The second aspect is related to the exploration of Italian regional geography through the use of articles, videos, and other materials available in digital form. P: ITA 201.

**ITA 225. Intermediate Italian. 3 credits.**

This course is designed to help students make the transition to natural communication and develop the language-learning process by focusing on the expansion of necessary elements for development of the practical language skills (listening, speaking, reading, and writing) by using cultural and literary readings as well as grammatical exercises. It also provides a broader awareness of and appreciation for the cultures of the countries where Italian is spoken. P: ITA 112 or equivalent.

**ITA 311. Advanced Italian I. 3 credits.**

This course is a survey of major periods of Italian civilization. In this advanced Italian course students also refine their communicative skills as they read, write, discuss, and present the most intriguing facts and personalities in Italian history. P: ITA 202 or equivalent.

**ITA 328. Studies in Contemporary Italian Culture: 1975-2002. 3 credits.**

This course brings to life the past fifty years of Italian history and culture. By watching a popular Italian television series and selected documentaries, by reading a novel and various articles, and by listening to popular music, students will experience Italian student movements, the "lead years," and the historical divide between Southern and Northern Italy. P: ITA 311 or IC.

**ITA 335. Italian Practicum. 1 credit.**

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 credits. 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 credits. (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 credits. (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 credits.**

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. Course may be repeated for a maximum of three credits. P: ITA 311.

**ITA 461. The City of Rome in Antiquity. 3 credits. 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 credits. (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 495. Directed Independent Study. 1-3 credits.**

For individual students who wish to complete a directed study project that focuses on a topic within the field of Italian. Limit of three semester hours.

**ITA 525. Roma: Passeggiate nella Citta Eterna. 3 credits. SU**

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 credits.**

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.

**JPN 101. Beginning Japanese I. 3 credits. FA**

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 credits. SP**

Continuation of JPN 101. P: JPN 101 or equivalent.

**JPN 111. Beginning Japanese for Daily Life I. 4 credits.**

This course introduces students to the language by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where Japanese is spoken.

**JPN 112. Beginning Japanese for Daily Life II. 4 credits.**

This course continues to develop the language-learning process by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where Japanese is spoken. P: JPN 111 or equivalent.

**JPN 201. Intermediate Japanese I. 3 credits. FA**

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 credits.**

Development of a more advanced ability in reading, speaking, listening and writing in Japanese. P: JPN 201 or equivalent.

**JPN 225. Intermediate Japanese. 3 credits.**

This course is designed to help students make the transition to natural communication and develop the language-learning process by focusing on the expansion of necessary elements for development of the practical language skills (listening, speaking, reading, and writing) by using cultural and literary readings as well as grammatical exercises. It also provides a broader awareness of and appreciation for the cultures of the countries where Japanese is spoken. P: JPN 112 or equivalent.

**JPN 311. Advanced Japanese I. 3 credits.**

Development of refined and accurate expression in speaking and writing Japanese. P: JPN 202 or equivalent.

**JPN 312. Advanced Japanese II. 3 credits.**

Development of refined and accurate expression in speaking and writing Japanese. P: JPN 202 or equivalent.

**JPN 313. Contemporary Japanese Culture and Society. 3 credits.**

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.

**RUS 101. Beginning Russian I. 3 credits. SP**

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 credits. FA**

Continuation of RUS 101. P: RUS 101 or equivalent.

**RUS 111. Beginning Russian for Daily Life I. 4 credits.**

This course introduces students to the language by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where Russian is spoken.

**RUS 112. Beginning Russian for Daily Life II. 4 credits.**

This course continues to develop the language-learning process by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where Russian is spoken. P: RUS 111 or equivalent.

**RUS 201. Intermediate Russian I. 3 credits. SP**

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 credits. FA**

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, reviewing video/audio materials. Students build a solid basis and competency for handling conversations, translations, and presentations. P: RUS 201 or equivalent.

**SPN 102. Beginning Spanish II. 3 credits. FA, SP**

Continuation of SPN 101. P: SPN 101 or equivalent.

**SPN 111. Beginning Spanish for Daily Life I. 4 credits.**

This course introduces students to the language by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where Spanish is spoken.

**SPN 112. Beginning Spanish for Daily Life II. 4 credits.**

This course continues to develop the language-learning process by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where Spanish is spoken. P: SPN 111 or equivalent.

**SPN 113. Beginning Spanish for the Medical Professionals I. 3 credits.**

Fundamentals of the pronunciation and structure of Spanish; practice in speaking, listening, reading and writing with emphasis on vocabulary related to medical situations. Designed for students planning careers in medicine, dentistry, nursing, and pharmacy and allied health but open to all. NOTE: This is an alternative beginning-level course to SPN 101. It is not open to those who have already taken SPN 101 and/or SPN 102, and it is open only to nonnative speakers of the language.

**SPN 115. Intensive Beginning Spanish. 3-6 credits. SU**

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 170. Musical Perspectives:Hearing the Hispanic World. 3 credits.**

This course presents a series of units that highlight music's connection to a variety of socio-cultural issues and topics relating to the Hispanic world, including colonization, evangelization and acculturation; religious and musical syncretism; race and racism; politics and protest; youth and poverty; poverty and pollution; borders, trafficking and immigration; and globalization, imperialism and identity. CO: COM 101.

**SPN 201. Intermediate Spanish I. 3 credits. FA, SP**

Course designed to help students make the transition to natural communication and to develop further all four language skills (listening, speaking, reading and writing), by using literary/cultural readings and grammatical exercises. P: SPN 102 or SPN 115 or equivalent.

**SPN 202. Intermediate Spanish II. 3 credits. FA, SP**

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 credits.**

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 213. Intermediate Spanish for the Medical Professionals I. 3 credits.**

This course is designed to help students make the transition to natural communication in the context of medical situations and to develop further all four language skills (listening, speaking, reading and writing) through the study of vocabulary, dialogues, readings and grammatical exercises pertaining to health-related professions. P: SPN 102 or SPN 114 or SPN 115 or equivalent.

**SPN 225. Intermediate Spanish. 3 credits.**

This course is designed to help students make the transition to natural communication and develop the language-learning process by focusing on the expansion of necessary elements for development of the practical language skills (listening, speaking, reading, and writing) by using cultural and literary readings as well as grammatical exercises. It also provides a broader awareness of and appreciation for the cultures of the countries where Spanish is spoken. P: SPN 112 or equivalent.

**SPN 311. Advanced Spanish I. 3 credits. FA, SP**

Development of refined accurate expression in speaking and writing Spanish; selected readings. P: SPN 202 or SPN 203.

**SPN 312. Spanish Grammar in Context. 3 credits. FA, SP**

Development of refined and accurate expression in speaking and writing Spanish; selected readings. P: SPN 202 or SPN 203.

**SPN 313. Advanced Spanish Conversation. 3 credits.**

Development of oral communication skills through extensive vocabulary building and its practical application. P: SPN 202 or SPN 203.

**SPN 314. Communicating In Business I. 3 credits.**

Oral and written practice in business communication, developing a business vocabulary, reading of documents and essays relating to business situations, interviewing and translating (English to Spanish/Spanish to English). P: SPN 202 or SPN 203.

**SPN 316. Spanish Immersion I. 3 credits. SU**

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. This course may count toward the major or minor in Spanish. P: SPN 202 or SPN 203.

**SPN 317. Spanish Immersion II. 3 credits. SU**

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. This course may count toward the Spanish minor or major. P: SPN 202 or SPN 203.

**SPN 318. Spanish Immersion in the Dominican Republic. 3 credits.**

This course offers an intensive learning experience that focuses on language learning through conversations and immersion in the daily life of a Dominican host family. This course complements the knowledge gained during the students' regular Encuentro Spanish class, allowing them to apply this knowledge in their interactions during the immersions. P: IC; CO: EDP 361.

**SPN 331. Medical Spanish I. 3 credits. FA**

This course is designed for students who may be planning a career in medicine, dentistry, nursing, and pharmacy and allied health but open to all. It is designed for students who have had prior study of Spanish and who wish to improve their communication - oral and written - skills when dealing with Spanish-speaking persons in a medical context. P: SPN 202 or SPN 203.

**SPN 335. Spanish Conversation. 1 credit. OD**

Course designed to improve oral and comprehensive skills through face-to-face and online discussions, interviews and oral presentations. Focus will be placed on each of the Spanish-speaking countries, the specific topics being determined mainly by current events. Authentic cultural materials such as newspapers, films, radio and television programs will be examined. Course may be repeated for a maximum of three credits. P: SPN 202 or SPN 203.

**SPN 340. Special Topics in Hispanic Cultures. 3 credits.**

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 SPN 203 or equivalent.

**SPN 341. Introduction to Translation. 3 credits.**

This course focuses on the improvement of the Spanish language through translation. While studying basic translation theories and translating short texts the students will review the most important and complex structures of the Spanish language. P: SPN 202 or SPN 203.

**SPN 350. Spanish for Heritage Speaker. 3 credits.**

This course has been designed for undergraduate students who learned Spanish at home or in their communities. It is a review of reading and writing materials designed to satisfy the needs of bilingual students who grew up hearing Spanish at home in the context of the United States. The goals of this course are: 1) development of academic reading and writing skills in Spanish, 2) expansion of bilingual range, 3) exposure to academic registers in Spanish, 4) transfer of literacy skills, and 5) development of awareness and appreciation for all varieties of Spanish. P: SPN 202 or 203 or IC.

**SPN 401. Advanced Spanish Composition. 3 credits. FA**

An intense conversation and composition course designed to refine oral 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 credits. FA**

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 credits. SP**

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. Encuentro Hispano I. 3 credits. SU**

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. This course may count toward the Spanish minor or major. P: Six credits at the 300-level.

**SPN 424. Encuentro Espanol I. 3 credits. SU**

Exploration of Spanish culture through city tours, visits to museums, concerts, theater, and cinema, on -site in Spain. This course may count toward the Spanish major or minor. P: Six credits at the 300-level.

**SPN 425. Introduction to Literary Analysis. 3 credits. FA, SP**

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 credits. FA**

Latin-American literature is studied from the Colonial Period to the present, incorporating some of the most influential writers in Spanish America and giving women authors the representation they merit. Readings include texts from Cristobal Colon, Sor Juana Ines de la Cruz, Esteban Echeverria, Ruben Dario, Gabriela Mistral, Octavio Paz, Garcia Marquez, Rosario Ferre, Jorge Luis Borges and Luisa Valenzuela. P: Six credits at the 401-425 level.

**SPN 427. Survey of Peninsular Literature. 3 credits. SP**

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. Communicating in Business II. 3 credits.**

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. Medical Spanish II. 3 credits. SP**

This course is designed for students who may be planning a career in medicine, dentistry, nursing, and pharmacy and allied health but open to all. The course focuses on issues surrounding immigrant health in the U.S. It is intended for students who have had prior study of Spanish and who wish to improve their understanding of these issues when dealing with Spanish-speaking persons in a medical context. P: Six credits at the 401-425 level.

**SPN 493. Directed Independent Readings. 1-3 credits.**

Designed to meet the special needs of majors in Spanish. Limit of three semester hours. P: Six credits at the 401-425 level.

**SPN 496. Independent Study in the Dominican Republic. 3 credits. SU**

This course offers the students the opportunity to work with faculty guidance on a topic or topics chosen in consultation between the faculty member and the student. This course is limited to students studying in the Dominican Republic. Limit of three semester hours. P: Six credits at the 401-425 level.

**SPN 502. Advanced Spanish Translation. 3 credits. SP**

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 400-425 level.

**SPN 525. Encuentro Espanol II. 3 credits. SU**

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 credits. SU**

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 credits.**

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 credits.**

This course provides an insight to 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 credits.**

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 credits.**

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 547. Nineteenth Century Spanish Novel. 3 credits.**

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 credits.**

Study of the major works from Columbus to Juana Ines de la Cruz. P: Six credits at the 401-425 level.

**SPN 551. Latin-American Novel. 3 credits.**

An introduction to the Latin-American novel, literary movements and techniques focusing on major writers such as Garcia Marquez, Vargas Llosa, Luisa Valenzuela, Isabel Allende, and others. P: Six credits at the 401-425 level.

**SPN 552. The Latin-American Short Story. 3 credits.**

Study of the Latin-American short narrative from the 19th century to the present. Selected stories by Echeverria, Garcia Marquez, Rosario Ferre, Elena Poniatowska, Julio Cortazar, Jorge Luis Borges, and others. P: Six credits at the 401-425 level.

**SPN 554. Twentieth-Century Latin-American Poetry. 3 credits.**

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 Theatre. 3 credits.**

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 559. Contemporary Peninsular Spanish Literature. 3 credits.**

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 credits.**

Analysis of works by contemporary authors of Hispanic descent born or residing in the United States. It will include, but will not be limited to, the following authors: Richard 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 credits.**

Reading and analysis of the major works of the following novelists and nonfiction writers: Unamuno, Valle-Inclan, Baroja, and Azorin. P: Six credits at the 401-425 level.

**SPN 563. Feminine Voices from Latin America and Spain. 3 credits.**

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 credits.**

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 credits.**

This course studies the evolution of the Latin American novel from the period immediately before the independence from Spain until the Modernism at the end of the century. It will examine the main literary movements from Romanticism to Modernism and its relationship with the historical evolution of the region and with the development of Latin American nationalisms. P: Six credits at the 401-425 level.

**SPN 568. Multicultural Spain Through Letters, Politics, Theater And Film. 3 credits.**

This course offers 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 credits.**

This course focuses on the analysis of cinematographic production in Spain in the post-Franco era. The 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 credits.**

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. Directed Independent Readings. 1-3 credits.**

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 credits. FA, SP**

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.

## **B.A., Major in French and Francophone Studies**

### **Specific Requirements for Admission to the French Major**

Completion of FRN 202 Intermediate French II or FRN 311 Advanced French I with a grade of "C" or better.

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

(A minimum of 15 credits toward the major must be taken at Creighton.)

Select at least 27 credits from the following groups:

27

**Group A: Advanced Language Skills**

FRN 311	Advanced French I
FRN 312	Advanced French II
FRN 335	French Conversation <sup>1</sup>
FRN 411	Advanced Spoken French
FRN 412	Advanced Written French
FRN 530	Introduction to Literary Analysis

FRN 599 Senior Seminar

**Group B: Professional Skills and Culture**

FRN 314 Business French Communication

FRN 522 French Civilization Before The French Revolution

FRN 524 French Civilization After The French Revolution

FRN 525 Paris, Ville Du Monde (Paris, City Of The World)

**Group C: Literature and the Arts**

FRN 540 French Literature: Middle Ages

FRN 542 French Literature: Renaissance

FRN 543 French Literature: 17th Century

FRN 544 French Literature: 18th Century

FRN 548 French Literature: 19th Century

FRN 549 French Literature: 20th Century

FRN 550 La litterature francophone africaine

FRN 551 Women Writers In French And Francophone Literature

FRN 554 Le Roman francais

FRN 557 French Poetry

FRN 564 History of the French Language

FRN 572 French Cinema

FRN 575 Directed Independent Readings

Total Credits

27

<sup>1</sup> May be repeated to a limit of three credits.

## Study Abroad

A minimum of 15 credits toward the major must be taken at Creighton.

## B.A., Major in German Studies

### Specific Requirements for Admission to the German Studies Major

Completion of GER 202 Intermediate German II or GER 303 German Literature and Civilization I: From the Middle Ages to 1871 with a grade of "C" or better.

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

GER 303 German Literature and Civilization I: From the Middle Ages to 1871 3

GER 304 German Literature and Civilization II: From 1871 to the Present 3

GER 497 Directed Independent Research 3

Select six credits from each of the following groups: 12

**Group A: Travel and Culture**

GER 321 German For Business And Economics

GER 328	Studies In Contemporary German Culture: The Last 25 Years	
GER 335	German Conversation <sup>1</sup>	
GER 495	Directed Independent Study	
GER 525	The New Berlin	
GER 568	The Multiplicity Of German Culture: Cultural Differences And Marginality	
<b>Group B: Literature and Film</b>		
GER 411	Introduction To German Literature	
GER 493	Directed Independent Readings	
GER 527	German Literature Of The 19th Century	
GER 529	Contemporary German Literature	
GER 545	German "Novelle": 19th And 20th Centuries	
GER 572	Reading German Films	
Select six additional credits from Groups A or B, or from the following:		6
GER 374	History of 19th-Century Philosophy	
GER 401	The European Union	
GER 459	Marxism	
PLS 301	Western European Political Systems	

Total Credits

27

<sup>1</sup> May be repeated to a limit of 3 credits.

## Study Abroad

A minimum of 15 credits toward the major must be taken at Creighton.

# B.A., Major in Spanish and Hispanic Studies: Literary Track

## Specific Requirements for Admission to the Spanish Major

Completion of SPN 201 Intermediate Spanish I or higher with a grade of "C" or better.

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

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

SPN 425	Introduction to Literary Analysis	3
Select one of the following: <sup>1</sup>		3
SPN 202	Intermediate Spanish II	
SPN 203	Intermediate Hispanic Culture and Civilization	

Select nine credits from the following: <sup>2</sup> 9

SPN 311	Advanced Spanish I
SPN 312	Spanish Grammar in Context
SPN 313	Advanced Spanish Conversation
SPN 314	Communicating In Business I
SPN 316	Spanish Immersion I
SPN 317	Spanish Immersion II
SPN 331	Medical Spanish I
SPN 335	Spanish Conversation <sup>3</sup>
SPN 340	Special Topics in Hispanic Cultures
SPN 341	Introduction to Translation
SPN 350	Spanish for Heritage Speaker

Select six credits from the following: 6

SPN 401	Advanced Spanish Composition
SPN 421	Civilization and Culture of Spain
SPN 422	Latin-American Culture and Civilization
SPN 423	Encuentro Hispano I
SPN 424	Encuentro Espanol I

Total Credits 21

- <sup>1</sup> Students placed at the 300 level or above may not take this course for credit in Major.
- <sup>2</sup> 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.
- <sup>3</sup> May be repeated to a limit of three credits.

## Literary Track

Select at least nine credits from the following: 9

SPN 426	Survey of Latin-American Literature
SPN 427	Survey of Peninsular Literature
SPN 496	Independent Study in the Dominican Republic
SPN 525	Encuentro Espanol II
SPN 528	Encuentro Hispano II
SPN 540	Eighteenth and Nineteenth Century Spanish Literature
SPN 541	Medieval Spanish Literature
SPN 542	Golden Age Literature
SPN 543	Don Quixote
SPN 547	Nineteenth Century Spanish Novel
SPN 550	Literature Of The Colonial Period
SPN 551	Latin-American Novel
SPN 552	The Latin-American Short Story
SPN 554	Twentieth-Century Latin-American Poetry

SPN 555	Twentieth-Century Latin American Theatre
SPN 559	Contemporary Peninsular Spanish Literature
SPN 560	Contemporary Latino(a) Literature
SPN 561	From the Generation of 1898 to the Avant-Garde
SPN 563	Feminine Voices from Latin America and Spain
SPN 564	History Of The Spanish Language
SPN 565	Nineteenth Century Latin-American Novel
SPN 568	Multicultural Spain Through Letters, Politics, Theater And Film
SPN 570	Contemporary Peninsular Film
SPN 571	Latin American Film
SPN 595	Directed Independent Readings
SPN 599	Senior Seminar

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Total Credits 9

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 Senior Seminar.

## Study Abroad

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

# B.A., Major in Spanish and Hispanic Studies: Professional Track

## Specific Requirements for Admission to the Spanish Major

Completion of SPN 201 Intermediate Spanish I or higher with a grade of "C" or better.

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

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

SPN 425	Introduction to Literary Analysis	3
Select one of the following: <sup>1</sup>		3
SPN 202	Intermediate Spanish II	
SPN 203	Intermediate Hispanic Culture and Civilization	
Select nine credits from the following: <sup>2</sup>		9
SPN 311	Advanced Spanish I	
SPN 312	Spanish Grammar in Context	
SPN 313	Advanced Spanish Conversation	
SPN 314	Communicating In Business I	

SPN 316	Spanish Immersion I	
SPN 317	Spanish Immersion II	
SPN 331	Medical Spanish I	
SPN 335	Spanish Conversation <sup>3</sup>	
SPN 340	Special Topics in Hispanic Cultures	
SPN 341	Introduction to Translation	
SPN 350	Spanish for Heritage Speaker	
Select six credits from the following:		6
SPN 401	Advanced Spanish Composition	
SPN 421	Civilization and Culture of Spain	
SPN 422	Latin-American Culture and Civilization	
SPN 423	Encuentro Hispano I	
SPN 424	Encuentro Espanol I	
Total Credits		21

- <sup>1</sup> Students placed at the 300 level or above may not take this course for credit in Major.
- <sup>2</sup> 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.
- <sup>3</sup> May be repeated to a limit of three credits.

## Professional Track

Select at least nine credits from the following:		9
SPN 426	Survey of Latin-American Literature	
SPN 427	Survey of Peninsular Literature	
SPN 430	Communicating in Business II	
SPN 431	Medical Spanish II	
SPN 496	Independent Study in the Dominican Republic	
SPN 502	Advanced Spanish Translation	
SPN 525	Encuentro Espanol II	
SPN 528	Encuentro Hispano II	
SPN 543	Don Quixote	
SPN 550	Literature Of The Colonial Period	
SPN 559	Contemporary Peninsular Spanish Literature	
SPN 560	Contemporary Latino(a) Literature	
SPN 563	Feminine Voices from Latin America and Spain	
SPN 564	History Of The Spanish Language	
SPN 568	Multicultural Spain Through Letters, Politics, Theater And Film	
SPN 570	Contemporary Peninsular Film	
SPN 571	Latin American Film	
SPN 595	Directed Independent Readings	

SPN 599	Senior Seminar	
Total Credits		9

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 Senior Seminar.

## Study Abroad

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

# French and Francophone Studies Minor

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.

## Minor in French and Francophone Studies Requirements: 18 Credits

Select at least 18 credits from the following groups: 18

### Group A: Language and Culture

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

### Group B: Specialized French Communication

FRN 312	Advanced French II
FRN 314	Business French Communication
FRN 335	French Conversation <sup>1</sup>
FRN 411	Advanced Spoken French
FRN 412	Advanced Written French
FRN 564	History of the French Language

### Group C: French Literature and Culture

FRN 522	French Civilization Before The French Revolution
FRN 524	French Civilization After The French Revolution
FRN 525	Paris, Ville Du Monde (Paris, City Of The World)
FRN 530	Introduction to Literary Analysis
FRN 549	French Literature: 20th Century
FRN 554	Le Roman francais

FRN 557	French Poetry	
FRN 572	French Cinema	
<b>Group D: Francophone Literature and Culture Courses</b>		
FRN 530	Introduction to Literary Analysis	
FRN 550	La litterature francophone africaine	
FRN 551	Women Writers In French And Francophone Literature	
Total Credits		18

<sup>1</sup> May be repeated to a limit of three credits.

## Study Abroad

A minimum of 12 credits toward the minor must be taken at Creighton.

## German Studies Minor

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.

## Minor in German Studies Requirements: 18 Credits

### Group A: Language and Culture

GER 201	Intermediate German I	3
GER 202	Intermediate German II	3
GER 303	German Literature and Civilization I: From the Middle Ages to 1871	3
GER 304	German Literature and Civilization II: From 1871 to the Present	3
Select at least three credits from each of the following groups:		6

### Group B: Literature and Film

GER 411	Introduction To German Literature	
GER 527	German Literature Of The 19th Century	
GER 529	Contemporary German Literature	
GER 545	German "Novelle": 19th And 20th Centuries	
GER 572	Reading German Films	

### Group C: Cultural Studies

GER 321	German For Business And Economics	
GER 328	Studies In Contemporary German Culture: The Last 25 Years	
GER 335	German Conversation <sup>1</sup>	
GER 525	The New Berlin	

GER 568	The Multiplicity Of German Culture: Cultural Differences And Marginality	
Total Credits		18

<sup>1</sup> May be repeated to a limit of three credits.

A minimum of 12 credits toward the minor must be taken at Creighton.

## Italian Minor

The Minor in Italian Studies offers students the opportunity to explore the interdisciplinary field of Italian speaking Europe and civilization. While complementing the students' areas of specialization, particularly in the fields of Italian art, architecture, and history 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.

### Minor in Italian Studies Requirements: 18 Credits

#### Group A: Language and Culture

ITA 201	Intermediate Italian I	3
ITA 202	Intermediate Italian II	3
ITA 311	Advanced Italian I	3
ITA 328	Studies in Contemporary Italian Culture: 1975-2002	3
Select six credits from the following: <sup>1</sup>		6

#### Group B: Italian Literature and Culture (in Italian)

ITA 335	Italian Practicum <sup>2</sup>	
ITA 411	Introduction to Italian Literature	
ITA 495	Directed Independent Study	
ITA 572	Italian History and Society in Italian Cinema	

#### Group C: Italian Art and Architecture (in English)

ITA 366	Etruscan and Roman Art	
ITA 375	History of Italian Renaissance Art and Architecture	
ITA 377	Seventeenth-Century Art and Architecture	
CNE 403	The Roman Republic	
CNE 404	The Roman Empire	
ITA 461	The City of Rome in Antiquity	
ITA 465	The City of Rome since Antiquity	
ITA 525	Roma: Passeggiate nella Citta Eterna	
ARH 475	Michelangelo and the High Renaissance	

Total Credits		18
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<sup>1</sup> Students must take at least three credits from each group.

<sup>2</sup> May be repeated to a limit of three credits.

## Study Abroad

A minimum of 12 credits toward the minor must be taken at Creighton.

## Spanish and Hispanic Studies Minor

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.

### Minor in Spanish and Hispanic Studies Requirements: 18 Credits

Select one of the following: <sup>1</sup>	3
SPN 202	Intermediate Spanish II
SPN 203	Intermediate Hispanic Culture and Civilization
Select nine credits from the following: <sup>2</sup>	9
SPN 311	Advanced Spanish I
SPN 312	Spanish Grammar in Context
SPN 313	Advanced Spanish Conversation
SPN 314	Communicating In Business I
SPN 316	Spanish Immersion I
SPN 317	Spanish Immersion II
SPN 331	Medical Spanish I
SPN 335	Spanish Conversation <sup>3</sup>
SPN 340	Special Topics in Hispanic Cultures
SPN 341	Introduction to Translation
SPN 350	Spanish for Heritage Speaker
Select six credits from the following:	6
SPN 401	Advanced Spanish Composition
SPN 421	Civilization and Culture of Spain
SPN 422	Latin-American Culture and Civilization
SPN 423	Encuentro Hispano I
SPN 424	Encuentro Espanol I
SPN 425	Introduction to Literary Analysis
<b>Total Credits</b>	<b>18</b>

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

- 1 Students placed at the 300 level or above may not take this course for credit in Major.
- 2 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.
- 3 May be repeated to a limit of three credits.

## Study Abroad

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

# Native American Studies

Program Director: Tracy N. Leavelle

Program Office: Humanities Center, Room 233

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.

## Minor in Native American Studies

- Native American Studies (p. 399)

## Courses

### **NAS 101. Introduction To Native American Studies: Anthropological Approaches. 3 credits. FA, SP (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 credits. FA, SP (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. Qualitative Methods In The Social Sciences. 3 credits. SP (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 credits. FA, SP (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 credits. (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 credits. ONY, SP (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 focuses on the many media through which Native cosmologies are expressed as well as the historical circumstances that have continued to transform Native cosmologies. P: PHL 107, and one of the following: (a) PHL 201 (b) PHL 250, (c) PHL 312, or (d) PHL 320.

**NAS 331. Indians of the Great Plains. 3 credits. ONY, SP (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 credits. SP (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 credits. FA (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 credits. ENY, FA (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 credits. FA (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 credits. (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, ENG 121, ENG 150.

**NAS 358. Critical Issues In The Study Of Native American Religions. 3 credits. ONY, SP (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 credits. FA (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 credits. (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 credits. (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 credits. SP (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 credits. 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 Readings. 1-6 credits. FA, SP, SU**

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 credits. FA, SP, SU**

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 credits. FA, SP, SU**

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 credits.**

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.

## Native American Studies Minor

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.

### Minor in Native American Studies Requirements: 18 Credits

NAS 101	Introduction To Native American Studies: Anthropological Approaches	3
NAS 108	The Native American World	3
NAS 365	Issues Of The Native American Experience	3
<b>Select nine additional credits from any NAS courses numbered 200 and above.</b>		<b>9</b>
Total Credits		18

# Philosophy

Chair: Amy E. Wendling

Associate Chair: Eugene E. Selk

Department Office: Humanities Center, Room 105

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.

## Majors in Philosophy

### Specific Requirements for Admission to the Philosophy Major

At least a "C" in a Philosophical Ideas the prerequisite course (PHL 110 Philosophical Ideas:Reality, Knowledge, and the Good Life or PHL 111 Philosophical Ideas:Law or PHL 112 Philosophical Ideas:Foundations of the Sciences or PHL 113 Philosophical Ideas:Nature, Time and God or PHL 118 Philosophical Ideas:Wisdom). A GPA of 2.00 or better in philosophy courses completed at the time of application.

- B.A., Major in Philosophy (p. 410)
- B.A., Major in Philosophy, Specialization in Ethics (p. 411)

## Minors in Philosophy

- Applied Ethics (p. 413)
- History and Philosophy of Science (p. 413)
- Philosophy (p. 414)

## Courses

### **PHL 107. Critical And Historical Introduction To Philosophy. 3 credits. FA, SP, SU**

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, and Nursing.

### **PHL 110. Philosophical Ideas:Reality, Knowledge, and the Good Life. 3 credits.**

An exploration of philosophical ideas about the nature of reality, the scope of human knowledge, and the nature of a good human life through the study of primary philosophical texts. Students will study theories and concepts that philosophers of the Western tradition have used to explore these ideas.

### **PHL 111. Philosophical Ideas:Law. 3 credits.**

An inquiry into the nature and purpose of the law in human society and the relationship between the law and reason. Students will analyze and evaluate a variety of Western philosophers' views about these subjects as they prepare to develop and defend their own views on the subjects.

**PHL 112. Philosophical Ideas:Foundations of the Sciences. 3 credits.**

This course will introduce students to the major philosophical frameworks and underlying philosophical concepts utilized in the sciences such as causality, chance, matter, unity, teleology, possibility, necessity, space, time, substance, and motion, but also the various powers of mind such as perception, understanding, reason, intuition, imagination, and creativity.

**PHL 113. Philosophical Ideas:Nature, Time and God. 3 credits.**

Every putative "thing" in nature is either in part an eternal idea in the mind of God, or instead an impermanent event, beginning and ending, wholly in time. This course explores those two possibilities, primarily through classical Western philosophy, but also a general introduction to philosophical Buddhism.

**PHL 118. Philosophical Ideas:Wisdom. 3 credits.**

Philosophy is the love of wisdom. This course studies conceptions of wisdom, reality vs. appearance, knowledge vs. opinion vs. ignorance, and the art of living offered by ancient Greek and Roman philosophers and at least one contemporary philosopher inspired by them.

**PHL 147. Introduction To Critical Thinking. 3 credits.**

An encounter with logic as an eminently practical and down-to-earth discipline meant to be used in everyday social and business interaction, intended to introduce business students to the basic and indispensable skills of deliberative thinking, with an eye toward application in speaking and writing.

**PHL 201. Introduction to Logic. 3 credits.**

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 credits.**

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 prem-ises, 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 credits. FA, SP, SU**

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 credits.**

Study of the ethical issues associated with different types of energy technologies and their impacts on the environment. P: PHL 107.

**PHL 270. Philosophical Ethics. 3 credits.**

A critical study of fundamental philosophical theories, including a utilitarian theory, a deontological theory, and a virtue ethics theory, about the nature and sources of moral obligation, moral virtue, justice, wisdom, and a good human life. Students will use these theories to evaluate critically their own ethical presuppositions and to form well-reasoned judgments about how to act in complex practical situations. P: One Philosophical Ideas course: PHL 110 or PHL 111 or PHL 112 or PHL 113 or PHL 118.

**PHL 309. Meaning in America. 3 credits.**

Examination of alternative sources of values in contemporary America. Emphasis will be placed on understanding both the value pluralism of American society and the person's need to articulate and embrace a life's meaning. Strategies for criticism of various contemporary lifestyles will be examined and central dimensions of making intelligent personal choices will be explored. P: PHL 107, and one of the following: PHL 201, PHL 250, PHL 312, or PHL 320.

**PHL 311. Utopian Thought. 3 credits.**

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 credits.**

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 credits. (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 credits. FA, SP, SU**

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 credits.**

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 credits. (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 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: PHL 201, PHL 250, PHL 312, or PHL 320.

**PHL 325. The Ostracism Of God And Modern Atheism. 3 credits.**

An examination of the historical origins, theoretical foundations, and internal logic of modern atheism. P: PHL 107, and one of the following: PHL 201, PHL 250, PHL 312, or PHL 320.

**PHL 328. Philosophy of History. 3 credits.**

Examination of some speculative theories about the direction of history from Plato to contemporary authors. Examination of the critical philosophy of history which 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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 340. Philosophy of Language. 3 credits.**

Introduction to some fundamental philosophical problems related to language through the study of classic and contemporary works. Topics such as meaning, reference, truth, and the relationship between meaning and use will be addressed. P: Philosophical Ideas course (PHL 110 or 111 or 113 or 118) and one additional PHL course.

**PHL 342. Metaphysics. 3 credits.**

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 credits.**

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 credits. (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 credits. (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 credits. (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 credits. (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 credits. (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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits. (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 credits. (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 credits.**

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 credits. (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 credits.**

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 credits. (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 credits. (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 credits. (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 credits.**

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 credits. (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 390. Philosophy of Law. 3 credits.**

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 401. Themes In Contemporary Philosophy. 3 credits.**

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 credits.**

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 credits.**

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 credits. (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 Soph. stdg.

**PHL 420. Science and Religion. 3 credits. (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 credits.**

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 credits.**

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 credits.**

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 431. Topics in Moral Philosophy. 3 credits.**

This course answers one of the most important questions raised by both western and non-western philosophers: What is the good life, or, what is the best kind of a human being can lead? P: PHL 107 and 250.

**PHL 434. Philosophy Of East Asian Literature And Film. 3 credits. (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 master works 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 credits. (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 451. Social Justice: Theory and Practice. 3 credits.**

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 credits.**

Examination of value-laden issues which 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 credits. (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 credits.**

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 credits. (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. Stgd.

**PHL 457. Biomedical Ethics: Philosophical and Theological Approaches. 3 credits. FA, SP, SU (Same as HAP 457, SRP 457, THL 457)**

An exploration of relations between philosophical and theological conceptions of ethics and moral methodologies, together with an application of the latter to select issues in biomedicine and health care policy. P: PHL 250 or THL 250; Sr. stdg.

**PHL 459. Marxism. 3 credits. (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 credits. (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 credits. (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 credits.**

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 464. Selected Topics in Ancient Philosophy. 3 credits. OD (Same as CNE 464)**

Topic 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: PHL 201, 250, 312 or 320.

**PHL 465. American Pragmatism. 3 credits. (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 credits.**

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 credits.**

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 credits. (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 credits. (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 credits.**

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 credits.**

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 credits. (Same as AMS 482, BKS 482, HIS 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: PHL 250 or THL 250; Sr. stdg.

**PHL 492. Senior Seminar for Majors. 3 credits. SP**

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. stdg; PHL major or IC.

**PHL 493. Directed Independent Readings. 1-4 credits.**

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 credits.**

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, and one of the following: PHL 201, PHL 250, PHL 312, or PHL 320.

**PHL 593. Advanced Readings In Philosophy. 1-4 credits.**

Independent readings course worked out individually for the student. May be repeated to a limit of six hours. P: PHL major and IC.

## B.A., Major in Philosophy

### B. A., Major in Philosophy Requirements: 36 Credits

<b>Philosophical Ideas Course</b>		<b>3</b>
Select one of the following:		
PHL 110	Philosophical Ideas:Reality, Knowledge, and the Good Life	
PHL 111	Philosophical Ideas:Law	
PHL 112	Philosophical Ideas:Foundations of the Sciences	
PHL 113	Philosophical Ideas:Nature, Time and God	
PHL 118	Philosophical Ideas:Wisdom	
<b>Other Required PHL Courses</b>		<b>9</b>
Take all of the following:		
PHL 250	Philosophical Foundations For Ethical Understanding (Philosophical Ideas)	
PHL 320	God and Persons: Philosophical Reflections	
PHL 492	Senior Seminar for Majors	
<b>Logic</b>		<b>3</b>
Select one of the following:		
PHL 201	Introduction to Logic	
PHL 312	Symbolic Logic	
<b>History of Philosophy</b>		<b>6</b>
Select six credits from the following:		
PHL 351	Introduction To Chinese Philosophy	
PHL 367	American Philosophy	
PHL 370	History Of Classical Greek Philosophy	
PHL 371	History Of Hellenistic Philosophy	
PHL 372	History of Medieval Philosophy	
PHL 373	History Of Modern Philosophy	
PHL 374	History Of 19th-Century Philosophy	
<b>Problems of Philosophy</b>		<b>6</b>
Select six credits from the following:		
PHL 321	Epistemology	
PHL 331	Moral Philosophy	
PHL 334	Philosophy Of The Natural Sciences	

PHL 342	Metaphysics	
PHL 358	Social And Political Philosophy	
PHL 422	Aesthetics	
<b>PHL Upper Level Electives</b>		<b>9</b>
Select nine additional credits of PHL courses numbered 300 or above.		
No more than three credits that are crosslisted as SRP may be applied to this major. <sup>1</sup>		
<b>Total Credits</b>		<b>36</b>

<sup>1</sup> PHL 420 Science and Religion, PHL 434 Philosophy Of East Asian Literature And Film, PHL 435 Literature, Philosophy, And Economics: Critical Representations Of Commercial Life, PHL 456 Public Health Ethics, PHL 457 Biomedical Ethics: Philosophical and Theological Approaches, PHL 460 Humanity and the Concept of the Future, PHL 475 Multiculturalism: History, Philosophy, Literature, and Education, PHL 482 Race In America: Idea And Reality

## B.A., Major in Philosophy, Specialization in Ethics

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

<b>Philosophical Ideas Course</b>		<b>3</b>
Select one of the following:		
PHL 110	Philosophical Ideas:Reality, Knowledge, and the Good Life	
PHL 111	Philosophical Ideas:Law	
PHL 112	Philosophical Ideas:Foundations of the Sciences	
PHL 113	Philosophical Ideas:Nature, Time and God	
PHL 118	Philosophical Ideas:Wisdom	
<b>Other Required PHL Courses - take all of the following:</b>		
PHL 250	Philosophical Foundations For Ethical Understanding	<b>3</b>
PHL 320	God and Persons: Philosophical Reflections	<b>3</b>
PHL 331	Moral Philosophy	<b>3</b>
PHL 492	Senior Seminar for Majors	<b>3</b>
<b>Logic</b>		<b>3</b>
Select one of the following:		
PHL 201	Introduction to Logic	
PHL 312	Symbolic Logic	
<b>History of Philosophy</b>		<b>6</b>
Select six credits from the following:		
PHL 351	Introduction To Chinese Philosophy	
PHL 367	American Philosophy	
PHL 370	History Of Classical Greek Philosophy	
PHL 371	History Of Hellenistic Philosophy	

PHL 372	History of Medieval Philosophy	
PHL 373	History Of Modern Philosophy	
PHL 374	History Of 19th-Century Philosophy	
<b>Problems of Philosophy</b>		<b>3</b>
Select three credits from the following:		
PHL 321	Epistemology	
PHL 334	Philosophy Of The Natural Sciences	
PHL 342	Metaphysics	
PHL 358	Social And Political Philosophy	
PHL 422	Aesthetics	
<b>Ethics</b>		<b>9</b>
Select nine credits from the following:		
PHL 317	Philosophy of Sport	
PHL 332	World Philosophy	
PHL 343	Ethics and the Professions	
PHL 348	Philosophy of Feminism	
PHL 354	Environmental Ethics	
PHL 355	Science, Technology, and Values	
PHL 356	Philosophy of Peace and War	
PHL 358	Social And Political Philosophy	
PHL 359	History of Ethics	
PHL 360	History of Mediaeval Ethics	
PHL 365	Classics of Political Thought	
PHL 368	Moral Psychology	
PHL 431	Topics in Moral Philosophy	
PHL 435	Literature, Philosophy, And Economics: Critical Representations Of Commercial Life	
PHL 453	Ethics and Public Policy	
PHL 455	Health Care, Society, And Values	
PHL 456	Public Health Ethics	
PHL 457	Biomedical Ethics: Philosophical and Theological Approaches	
PHL 482	Race In America: Idea And Reality	
<b>Total Credits</b>		<b>36</b>

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

[PHL 420 Science and Religion, PHL 434 Philosophy Of East Asian Literature And Film, PHL 435 Literature, Philosophy, And Economics: Critical Representations Of Commercial Life, PHL 456 Public Health Ethics, PHL 457 Biomedical Ethics: Philosophical and Theological Approaches, PHL 460 Humanity and the Concept of the Future, PHL 475 Multiculturalism: History, Philosophy, Literature, and Education, PHL 482 Race In America: Idea And Reality]

## Applied Ethics Minor

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 Chair, Department of Philosophy

### Minor in Applied Ethics Requirements: 18 Credits

<b>Foundational Ethics</b>		<b>3</b>
PHL 250	Philosophical Foundations For Ethical Understanding	
<b>Theological Ethics</b>		<b>6</b>
Select two of the following:		
THL 534	Introduction to Liberation Theology	
THL 541	God is Green	
THL 563	Contemporary Moral Problems	
THL 564	Christian Sexual Ethics	
THL 565	Catholic Social Teaching	
THL 589	The Rwanda Genocide as a Challenge for the Church	
<b>Philosophical Ethics</b>		
Select two of the following:		<b>6</b>
PHL 331	Moral Philosophy	
PHL 343	Ethics and the Professions	
PHL 348	Philosophy of Feminism	
PHL 354	Environmental Ethics	
PHL 359	History of Ethics	
PHL 368	Moral Psychology	
PHL 431	Topics in Moral Philosophy	
PHL 453	Ethics and Public Policy	
PHL 455	Health Care, Society, And Values	
Select one additional course from the lists above or from the following:		<b>3</b>
JPS 588	Christian Ethics Of War And Peace	
SRP 457	Biomedical Ethics: Philosophical and Theological Approaches	
SRP 409	Race and Gender Relations: Moral and Ethical Dilemmas	
THL 250	Theological Foundations for Ethical Understanding	
<b>Total Credits</b>		<b>18</b>

## History and Philosophy of Science Minor

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

## Minor in History and Philosophy of Science Requirements: 18 Credits

<b>Philosophical Ideas Course</b>	<b>3</b>
Select one of the following:	
PHL 110	Philosophical Ideas:Reality, Knowledge, and the Good Life
PHL 111	Philosophical Ideas:Law
PHL 112	Philosophical Ideas:Foundations of the Sciences
PHL 113	Philosophical Ideas:Nature, Time and God
PHL 118	Philosophical Ideas:Wisdom
<b>Select three of the following:</b>	<b>9</b>
BIO 141	Charles Darwin: Life And Impact
ECO 508	Development Of Political Economy
HIS 335	The Scientific Revolution
HIS 431	Mathematical History, Philosophy And Ethics
PLS 362	Conservative Political Thought
PHY 147	Einstein and Modern Physics
PSY 424	History And Systems Of Psychology
SOC 301	Social and Cultural Theory
SOC 335	Technology and Social Change
<b>Select two of the following:</b>	<b>6</b>
PHL 333	Philosophy Of The Human Sciences
PHL 334	Philosophy Of The Natural Sciences
PHL 420	Science and Religion
<b>Total Credits</b>	<b>18</b>

## Philosophy Minor

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

## Minor in Philosophy Requirements: 18 Credits

<b>Philosophical Ideas Course</b>	<b>3</b>
Select one of the following:	
PHL 110	Philosophical Ideas:Reality, Knowledge, and the Good Life
PHL 111	Philosophical Ideas:Law
PHL 112	Philosophical Ideas:Foundations of the Sciences
PHL 113	Philosophical Ideas:Nature, Time and God

PHL 118 Philosophical Ideas:Wisdom

**History of Philosophy** 3

Select one of the following:

PHL 351 Introduction To Chinese Philosophy

PHL 367 American Philosophy

PHL 370 History Of Classical Greek Philosophy

PHL 371 History Of Hellenistic Philosophy

PHL 372 History of Medieval Philosophy

PHL 373 History Of Modern Philosophy

PHL 374 History Of 19th-Century Philosophy

**Problems in Philosophy** 3

Select one of the following:

PHL 321 Epistemology

PHL 331 Moral Philosophy

PHL 334 Philosophy Of The Natural Sciences

PHL 342 Metaphysics

PHL 358 Social And Political Philosophy

PHL 422 Aesthetics

**PHL Upper Level Electives** 9

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

Total Credits 18

## Physics

Chair: Janet Seger

Department Office: Hixson-Lied Science Building, Room G81

The physics 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.

## Majors in Physics

### Specific Requirements for Admission to the Physics Major

PHY 211 General Physics I<sup>1</sup> and PHY 212 General Physics II<sup>1</sup> or an "A" or "B" grade in PHY 211 General Physics I.

- B.S., Major in Physics (p. 429)
- B.S., Major in Applied Physical Analysis (p. 427)
- B.S. Phy., Major in Physics (p. 426)

- 1 PHY 221 Advanced General Physics I:Modeling the Physical World/PHY 223 Project Physics Laboratory I and PHY 222 Advanced General Physics II:Modeling the Physical World/PHY 224 Project Physics Laboratory II can be substituted for the PHY 211 General Physics I/PHY 212 General Physics II requirement.

## Minors in Physics

- Biological Physics (p. 431)
- Physics (p. 431)

## Minor in Atmospheric Sciences

- Atmospheric Sciences (p. 430)

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.

## Courses

### **ATS 113. Introduction To Atmospheric Sciences. 3 credits. FA, SP, SU (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 credit. FA, SP, SU (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 credits. 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 credits. FA**

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 credits. 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 credits. AY, SP**

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 credits. AY, FA (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 credits. 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 credits. FA, SP, SU**

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 credits. FA, SP, SU**

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 credits. FA, SP, SU**

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 credit. 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 3 credits. P: ATS 542 and ATS 545.

**ATS 493. Directed Independent Readings. 1-3 credits. FA, SP, SU**

Credit by arrangement. May be repeated to a limit of six hours. P: DC.

**ATS 495. Directed Independent Study. 1-3 credits. FA, SP, SU**

Credit by arrangement. May be repeated to a limit of six hours. P: DC.

**ATS 497. Directed Independent Research. 1-3 credits. FA, SP, SU**

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 credits. FA**

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 credits. AY, SP**

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 credits. AY, SP**

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 credits. 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 credits. SP (Same as EVS 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 will be raised. Major topics include effects of CO<sub>2</sub> warming (greenhouse effect), ozone depletion; human-induced desertification; acid rain; urban microclimates. Methods of monitoring these systems will be stressed relative to an increased world-wide need to limit or prevent human-induced climate changes.

**ATS 542. Radar Remote Sensing. 3 credits. FA**

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 of severe storm investigation. P: MTH 245; PHY 212 and ATS 113; or IC.

**ATS 544. Hydrology. 3 credits. OD, SP (Same as 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 ATS 231.

**ATS 545. Mesoscale Analysis. 3 credits. SP**

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 ATS 571.

**ATS 552. Boundary Layer Meteorology. 3 credits. 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 credits. AY, FA (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 credits. SP (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 credits. AY, FA (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 credits. FA**

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 credits. SP**

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 credits. 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 credits. 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 credits. 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 and ATS 561.

**ATS 570. Quantitative Methods in the Atmospheric Sciences. 3 credits. SP**

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 credits. FA**

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 credits. SP**

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 credits. SP (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.

**PHY 105. Frontiers in Astronomy. 2 credits.**

Covers select topics in astronomy at the frontiers of research including the big bang and evolution of the universe, dark matter, dark energy, blackholes, quasars, and the search for exoplanets and life in the universe. The scientific method and experimental tools used by astronomers are explored.

**PHY 107. Introductory Astronomy. 3 credits. FA, SP, SU**

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 109. Introductory Astronomy. 3 credits.**

This course provides a broad survey of scientific understanding of the physical processes, structure, and evolution of objects in the universe in a lecture format. Topics include the nature and motions of celestial objects, the solar system, stars, galaxies, stellar remnants, large-scale structure in the universe and cosmology. P: MTH 141 or MTH 205 or MTH 245; CO: PHY 110 or IC.

**PHY 110. Astronomy Laboratory. 1 credit.**

An introductory lab course that provides a deeper inquiry into fundamental concepts in astronomy through hands-on activities. Topics covered include the nature and motions of celestial objects, fundamental physical laws, the solar system, stars, galaxies, stellar remnants, and cosmology. P: MTH 141 or MTH 205 or MTH 245; CO: PHY 109 or IC.

**PHY 127. Sound and Music. 3 credits. 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 credits. 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 credits. 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. Sustainable Energy. 2 credits. OD**

Uses fundamental physical principles and hands-on exploration to develop an understanding of the energy sources available for our use. Covers current trends in energy production and consumption and an evaluation of the potential for a sustainable energy supply. Societal, technical and ethical considerations related to energy usage are emphasized.

**PHY 187. Conceptual Physics. 2 credits. FA**

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 conceptual, mathematical, graphical and statistical solution techniques of simple physics problems.

**PHY 188. Physics in the Everyday World. 1 credit. FA**

Experimental investigation of physical concepts as applied to geology, astronomy, motion, fluids, electricity, magnetism, waves, and quantum physics. This course may be taken by itself or in combination with PHY 127, 137, 147, or 187. No formal science or mathematics prerequisites.

**PHY 191. Exploring the Frontiers of Physics. 1 credit. FA, SP**

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. Repeatable to a maximum of 4 credits.

**PHY 195. Selected Topics in Physics. 1-6 credits. OD**

A physics project or special study in physics outside the normal curricular boundaries.

**PHY 201. General Physics for the Life Sciences. 3 credits.**

First semester of the general physics sequence for life sciences majors. Topics include kinematics, Newton's laws of motion, conservation of momentum and energy, rotational dynamics, thermodynamics, and fluids. P: MTH 139 or higher; CO: PHY 205.

**PHY 202. General Physics for the Life Sciences II. 3 credits.**

Second semester of the general physics sequence for life science majors. Topics include waves, electricity, magnetism, optics and modern physics. P: PHY 201 or PHY 213 or PHY 221 or DC; CO: PHY 206 or DC.

**PHY 205. General Physics Laboratory I. 1 credit.**

Laboratory work designed to acquaint the student with the measurement and uncertainty, error analysis, and physics topics such as thermodynamics and fluids. CO: PHY 201 or PHY 213 or PHY 221.

**PHY 206. General Physics Laboratory II. 1 credit.**

This lab is designed to accompany PHY 202, PHY 214 or PHY 222. In addition to laboratory activities, one contact hour of weekly lecture is included. Topics include oscillations, waves, optics, and d.c. circuits. This course is algebra-based. P: PHY 205; CO: PHY 202 or PHY 214 or PHY 222 or DC.

**PHY 211. General Physics I. 4 credits. FA, SP, SU**

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 credits.**

Continuation of PHY 211. Topics include oscillations, waves, optics, electricity and magnetism, DC and AC circuits, modern physics. Basic calculus used. P or CO: MTH 245 or 141; P: PHY 211; or IC.

**PHY 213. General Physics for the Physical Sciences I. 3 credits.**

First semester of the general physics sequence for physical science majors. Topics include kinematics, Newton's laws of motion, conservation of momentum and energy, rotational dynamics, thermodynamics, and fluids. CO: MTH 245 and PHY 205 or DC.

**PHY 214. General Physics for the Physical Sciences II. 3 credits.**

Second semester of the general physics sequence which is intended for students majoring in the physical sciences. Lecture and discussion. Topics include oscillations, waves, optics, electricity and magnetism, and modern physics. Calculus based. P: PHY 213 or PHY 221, or MTH 245 with IC; PHY 206 or DC.

**PHY 221. Advanced General Physics I: Modeling the Physical World. 3 credits. FA**

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. Advanced General Physics II: Modeling the Physical World. 3 credits.**

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: PHY 221 or IC; CO: MTH 349.

**PHY 223. Project Physics Laboratory I. 1 credit.**

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 credit.**

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 credits. FA**

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; Schrodinger 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 credit. FA**

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 credit. FA**

Basic course in electronics. Laboratory experiments include an introduction to measuring instruments, and applications of solid state components, and analog and digital integrated circuits. P: PHY 212 or PHY 222.

**PHY 331. Physical Optics. 3 credits. SP**

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 credit. SP**

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 credits. AY, FA**

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 credits. AY, FA**

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 credits. SP**

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 credits. FA**

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 credit. FA, SP**

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 credits. FA, SP, SU**

A readings project under the guidance of a member of the faculty. Credit by arrangement. May be repeated to a maximum of six hours. P: IC.

**PHY 495. Directed Independent Study. 1-3 credits. FA, SP, SU**

A study project under the guidance of a member of the faculty. Credit by arrangement. May be repeated to a maximum of six hours. P: IC.

**PHY 497. Directed Independent Research. 1-3 credits. FA, SP, SU**

A research project under the guidance of a member of the faculty. Credit by arrangement. May be repeated to a maximum of six hours. P: IC.

**PHY 521. Electronics for Scientists. 3 credits. FA, 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 credits. FA, OD**

Kirchhoff'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 credits. FA**

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 credits. SP**

Laws of thermodynamics, thermodynamic variables, thermodynamic potentials; kinetic theory, distribution functions, classical and quantum statistics. P: PHY 212 or CHM 331 or PHY 222; MTH 246.

**PHY 551. Mathematical Physics. 3 credits. FA**

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 credits. OD**

The course offers an introduction to scientific computing techniques for physics students. The course will offer training in computational software and programming language to model complex systems and/or to analyze data. Examples are drawn from a variety of subfields of physics. P: PHY 214 or PHY 222 or DC.

**PHY 559. Gravitation and Cosmology. 3 credits. 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 credits. AY, SP**

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 credits. AY, FA**

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 302 or IC.

**PHY 563. High Energy Nuclear Physics. 1 credit. OD**

Students will read and discuss original journal articles related to the historical development of high energy physics. P: PHY 212 or PHY 212; MTH 246; or IC.

**PHY 571. Condensed Matter Physics. 3 credits. AY, SP**

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 credit. 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 581. Advanced Laboratory I. 1 credit.**

Advanced laboratory work in physics designed to teach the methods of experimental research in physics. Students will work in collaborative teams on two open-ended experiments, each lasting six weeks, drawn from any physics subfield. Students will also develop a research proposal to be executed in PHY 582, Advanced Laboratory II. P: PHY 302, 303, and 332.

**PHY 582. Advanced Laboratory II. 1 credit.**

Advanced laboratory designed to teach the methods of experimental research in physics. Students will work in collaborative teams to complete a project of their own design, including literature review, design and execution of the experiment, data analysis (including statistical testing) and a written report. Students will participate in mock peer-review. P: Phy 581.

**PHY 585. Teaching of Physics. 3 credits. FA**

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 credits. 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. 1-3 credits. OD (Same as ERG 591)**

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 credits. OD**

A course treating physics topics of special interest. The course will be subtitled in the Schedule of Classes and may be repeated under different subtitles. P: IC.

## B.S. Ats., Major in Atmospheric Sciences

### B.S. Ats., Major in Atmospheric Sciences Requirements: 44 Credits

ATS 113	Introduction To Atmospheric Sciences	3
ATS 114	Introduction To Atmospheric Sciences Laboratory	1
ATS 211	Weather Analysis and Forecasting	3
ATS 315	Computer Applications In Meteorology	3
ATS 510	Introduction to Physical Meteorology	3
ATS 555	Meteorological Remote Sensing	3
ATS 561	Synoptic Meteorology I	3
ATS 562	Synoptic Meteorology II	4
ATS 570	Quantitative Methods in the Atmospheric Sciences	3
ATS 571	Dynamic Meteorology I	3
ATS 572	Dynamic Meteorology II	3
At least 12 elective credits from ATS courses 400-level or above.		12
Total Credits		44

### Requisite Courses

MTH 245 Calculus I and MTH 246 Calculus II and MTH 545 Differential Equations; PHY 211 General Physics I and PHY 212 General Physics II.

## B.S. Phy., Major in Physics

### B.S. Phy., Major in Physics Requirements: 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:

Select six additional credits of Advanced Lecture Elective courses	6
Six credits from the following: <sup>1</sup>	6
MTH 529	Linear Algebra
MTH 543	Numerical Analysis
MTH 545	Differential Equations
MTH 561	Mathematical Statistics I
Total Credits	12

<sup>1</sup> Students can satisfy this requirement by instead choosing CHM 203 General Chemistry I/CHM 204 General Chemistry I Laboratory and CHM 205 General Chemistry II/CHM 206 General Chemistry II Laboratory.

Additional coursework in mathematics, computer science, chemistry, or other sciences is recommended. Courses selected will depend on specific career goals.

## B.S., Major in Applied Physical Analysis

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

#### Course Requirements

PHY 211	General Physics I <sup>1</sup>	4
PHY 212	General Physics II <sup>1</sup>	4
PHY 471	Classical Mechanics	3
PHY 591	Seminar in Engineering	1
MTH 545	Differential Equations	3
MTH 561	Mathematical Statistics I	3
MTH 562	Mathematical Statistics II	3
Select one of the following:		3
CSC 221	Introduction to Programming	
PHY 553	Computational Physics	
Select three credits from the following:		3
PHY 497	Directed Independent Research	
ERG 497	Directed Independent Research	
Select nine credits from the following:		9
CSC 222	Object-Oriented Programming	
CSC 321	Data Structures	
CSC 414	Introduction To Computer Organization	
CSC 421	Algorithm Design and Analysis	
CSC 533	Programming Languages	
CSC 548	Software Engineering	
CSC 590	Special Topics	
ERG 211	Design and Rapid Prototyping Lab I	
ERG 212	Design and Rapid Prototyping Lab II	
ERG 241	Introduction to Energy Transfer	
ERG 251	History and Technology in the Modern World	
ERG 311	Design and Rapid Prototyping Lab III	
ERG 312	Design and Rapid Prototyping Lab IV	
MTH 529	Linear Algebra	
MTH 543	Numerical Analysis	
MTH 546	Partial Differential Equations	
MTH 551	Differential Geometry	
MTH 555	Chaotic Dynamical Systems	
MTH 563	Mathematical Statistics III	

MTH 571	Operations Research
MTH 572	Fuzzy Logic
MTH 573	Probabilistic Models
MTH 575	Introductory Stochastic Processes
PHY 301	Modern Physics
PHY 303	Electronics Laboratory
PHY 331	Physical Optics
PHY 332	Optics Laboratory
PHY 481	Electricity and Magnetism
PHY 491	Seminar
PHY 521	Electronics for Scientists
PHY 522	Electric Circuits
PHY 531	Quantum Mechanics
PHY 541	Thermodynamics And Statistical Mechanics
PHY 551	Mathematical Physics
PHY 553	Computational Physics
PHY 561	Nuclear Physics
PHY 571	Condensed Matter Physics
PHY 581	Advanced Laboratory I
PHY 582	Advanced Laboratory II
PHY 587	Laser Physics

Total Credits

36

- <sup>1</sup> PHY 221 Advanced General Physics I:Modeling the Physical World/PHY 223 Project Physics Laboratory I and PHY 222 Advanced General Physics II:Modeling the Physical World/PHY 224 Project Physics Laboratory II can be substituted for the PHY 211 General Physics I/PHY 212 General Physics II requirement.

## Requisite Courses

MTH 245 Calculus I, MTH 246 Calculus II, MTH 347 Calculus III.

# B.S., Major in Atmospheric Sciences

## B. S., Major in Atmospheric Sciences Requirements: 26 Credits

ATS 113	Introduction To Atmospheric Sciences	3
ATS 114	Introduction To Atmospheric Sciences Laboratory	1
ATS 542	Radar Remote Sensing	3
ATS 555	Meteorological Remote Sensing	3
ATS 561	Synoptic Meteorology I	3
ATS 562	Synoptic Meteorology II	4
ATS 571	Dynamic Meteorology I	3

ATS 572	Dynamic Meteorology II	3
One additional course chosen in consultation with the department chair.		3
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Total Credits		26

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 Calculus I and MTH 246 Calculus II, PHY 211 General Physics I and PHY 212 General Physics II are required. Additional courses in one or more of the following fields are highly recommended: Computer Science, Chemistry, Mathematics, Statistics or Environmental Sciences.

## B.S., Major in Physics

### B.S., Major in Physics Requirements: 36 Credits

#### Course Requirements

PHY 211	General Physics I <sup>1</sup>	4
PHY 212	General Physics II <sup>1</sup>	4
PHY 301	Modern Physics	3
PHY 302	Modern Physics Laboratory	1
PHY 303	Electronics Laboratory	1
PHY 331	Physical Optics	3
PHY 332	Optics Laboratory	1
PHY 471	Classical Mechanics	3
PHY 481	Electricity and Magnetism	3
PHY 491	Seminar	1
PHY 531	Quantum Mechanics	3
PHY 541	Thermodynamics And Statistical Mechanics	3

#### Advanced Lecture Elective

Select three credits from the following:		3
PHY 351	Physics in Medicine	
PHY 353	Introduction to Biological Physics	
PHY 522	Electric Circuits	
PHY 551	Mathematical Physics	
PHY 553	Computational Physics	
PHY 559	Gravitation and Cosmology	
PHY 561	Nuclear Physics	
PHY 563	High Energy Nuclear Physics	
PHY 571	Condensed Matter Physics	
PHY 587	Laser Physics	
PHY 595	Special Topics	

**Advanced Laboratory Elective**

Select three credits from the following:	3
PHY 497	Directed Independent Research
PHY 581	Advanced Laboratory I
PHY 582	Advanced Laboratory II
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Total Credits	36

- <sup>1</sup> PHY 221 Advanced General Physics I:Modeling the Physical World/PHY 223 Project Physics Laboratory I and PHY 222 Advanced General Physics II:Modeling the Physical World/PHY 224 Project Physics Laboratory II can be substituted for the PHY 211 General Physics I/PHY 212 General Physics II requirement.

**Requisite Courses**

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

**Atmospheric Sciences Minor**

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.

**Minor in Atmospheric Sciences Requirements:18 credits**

ATS 113	Introduction To Atmospheric Sciences	3
Select fifteen credits from the following:		15
ATS 114	Introduction To Atmospheric Sciences Laboratory	
ATS 211	Weather Analysis and Forecasting	
ATS 443	Environmental Geology	
ATS 533	Physical Climatology and Climate Change	
ATS 542	Radar Remote Sensing	
ATS 544	Hydrology	
ATS 545	Mesoscale Analysis	
ATS 553	Tropical Meteorology	
ATS 555	Meteorological Remote Sensing	
ATS 556	Introduction To Physical Oceanography	
ATS 561	Synoptic Meteorology I	
ATS 562	Synoptic Meteorology II	
ATS 571	Dynamic Meteorology I	

ATS 572

Dynamic Meteorology II

Total Credits

18

## Biological Physics Minor

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.

### Minor in Biological Physics Requirements: 18 Credits

BIO 202 & BIO 206	General Biology: Cellular and Molecular and General Biology: Cellular and Molecular	4
PHY 211	General Physics I <sup>1</sup>	4
PHY 212	General Physics II <sup>1</sup>	4
PHY 301	Modern Physics	3
Select one of the following:		3
PHY 351	Physics in Medicine	
PHY 353	Introduction to Biological Physics	
Total Credits		18

- <sup>1</sup> PHY 221 Advanced General Physics I:Modeling the Physical World/PHY 223 Project Physics Laboratory I and PHY 222 Advanced General Physics II:Modeling the Physical World/PHY 224 Project Physics Laboratory II can be substituted for the PHY 211 General Physics I/PHY 212 General Physics II requirement.

## Physics Minor

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.

### Minor in Physics Requirements: 18 Credits

PHY 211	General Physics I <sup>1</sup>	4
PHY 212	General Physics II <sup>1</sup>	4
PHY 301	Modern Physics	3
PHY 302	Modern Physics Laboratory	1
Six credits from the following:		6
PHY 331	Physical Optics	
PHY 332	Optics Laboratory	
PHY 471	Classical Mechanics	

PHY 481	Electricity and Magnetism
PHY 491	Seminar
PHY 493	Directed Independent Readings <sup>2</sup>
PHY 495	Directed Independent Study <sup>2</sup>
PHY 497	Directed Independent Research <sup>2</sup>
PHY 531	Quantum Mechanics
PHY 541	Thermodynamics And Statistical Mechanics
PHY 581	Advanced Laboratory I
PHY 582	Advanced Laboratory II
PHY 585	Teaching of Physics

Total Credits

18

- <sup>1</sup> PHY 221 Advanced General Physics I:Modeling the Physical World/PHY 223 Project Physics Laboratory I and PHY 222 Advanced General Physics II:Modeling the Physical World/PHY 224 Project Physics Laboratory II can be substituted for the PHY 211 General Physics I/PHY 212 General Physics II requirement.
- <sup>2</sup> Only a total of two credits from PHY 493 Directed Independent Readings, PHY 495 Directed Independent Study and PHY 497 Directed Independent Research may be applied toward this minor.

## Political Science and International Relations

Chair: Graham P. Ramsden

Department Office: Creighton Hall, Room 430A

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.

### Majors in Political Science and International Relations

- B.A., Major in Political Science: Political Science Track (p. 443)
- B.A., Major in Political Science: Public Policy Track (p. 445)
- B.S. Major in Political Science: Legal Studies Track (p. 442)
- B.A. Major in Political Science: Research Design and Analysis Track (p. 446)
- B.A., Major in International Relations (p. 441)

### Minors in Political Science and International Relations

- International Relations (p. 447)
- Legal Studies (p. 448)
- Political Science (p. 448)
- Public Policy (p. 449)

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.

## Courses

### **PLS 101. Introduction to Politics. 3 credits. FA, SP**

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.

### **PLS 105. Introduction to World Politics. 3 credits. FA, SP**

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.

### **PLS 121. American Government And Politics. 3 credits. FA, SP, SU (Same as AMS 121)**

A course that provides a critical overview of American political institutions, processes, and policies. It shows how these institutions and processes are shaped by the Constitution, historical events and elections as well as by politicians, the media, interest groups, and public opinion.

### **PLS 215. Comparative Political Systems. 3 credits. FA, SP**

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 301. Western European Political Systems. 3 credits. AY, FA**

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 are considered. P: So. stdg.

### **PLS 302. Studies in Contemporary British Politics. 3 credits.**

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 credits. 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 credits. 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 credits. SP**

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 credits. AY, SP**

Comparative analysis of political systems in the Middle East. Focused on the process of political development and the transformation from traditional to modern political entities. Analysis of such issues as the Arab-Israeli conflict, rise of Islamic fundamentalism, U.S. involvement in the area, and geopolitical issues. P: So. stdg.

**PLS 315. Politics of Asia. 3 credits. AY, FA**

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 People's Republic of China. 3 credits. AY, SP**

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 credits. AY, SP**

Overview of the 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 318. InterAmerican Politics. 3 credits.**

The primary goal of this course is to give students an understanding of the complex relationships forged between the U.S. and its southern neighbors. To accomplish this, we will study U.S. policy towards several Latin American states as well as their policies towards the U.S. in comparative perspective. P: So. Stdg.

**PLS 319. Politics Of The Developing Areas. 3 credits. 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 credits. SP**

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 Tribal Indian Government and Politics. 3 credits. (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 credits. AY, SP**

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 credits. AY, FA**

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 credits. AY, FA**

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 credits. OD (Same as AMS325)**

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 credits. 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 credits. 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 credits. 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 credits. AY, SP (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 credits. FA (Same as HAP 331)**

Examines administrative processes and politics in government and non-profit settings. The course emphasizes application of material to case study examples of public and non-profit organizational challenges. Course covers local, state, and national bureaucratic politics. P: So. stdg.

**PLS 332. Interest Group Politics. 3 credits. 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 333. Environmental Politics And Policy. 3 credits. FA (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 credits. SP (Same as HAP 334)**

Review of government policies and programs as they affect health care in the United States and other countries. Various systems of health insurance, the private medical market, governmental provision, development and evolution of managed care systems, current U.S. federal programs. P: So. stdg.

**PLS 335. Federal Indian Policy and Law. 3 credits. SP (Same as AMS 335, NAS 335, SWK 335)**

Investigates the relationships between Native Americans and the Euro-American 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 credits. FA**

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 credits. 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 credits. FA**

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 credits. 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 credits. 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 credits. 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 credits. AY, FA**

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 transfers, and migration. Importance of national and multinational actors and a review of various ideological perspectives. P: So. stdg.

**PLS 347. International Regimes. 3 credits. AY, FA**

Course considers major theories in international relations that begin with the assumption that the world is dominated by webs of formal and informal agreements that facilitate co-operation and limit the sovereignty of nation-states. The course considers the possibilities these relational webs (regimes) hold for the global community. P: So. stdg.

**PLS 356. Constitutional Issues. 3 credits. (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 credits. 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 credits. OD**

Development of classical liberalism 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 credits. 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 credits. AY, SP (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 372. Equality, Minorities, And Public Policy. 3 credits. AY, SP (Same as AMS 372, BKS 372, HIS 372)**

Incorporates continuing discourses between a historian and a political scientist. Exploration of the political processes whereby minorities have influenced the formulation and implementation of policy and governmental responses to demands for equal treatment. P: So. stdg.

**PLS 390. Philosophy of Law. 3 credits.**

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 401. The European Union. 3 credits. AY, FA (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 credits. 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 credits.**

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 credits. 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 credits. AY, FA (Same as AFS 411, BKS 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.

**PLS 420. Seminar On American Government And Politics. 3 credits. 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 credits. 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 credits. 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 credits. 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 credits. 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 credits. 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 credits. 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 credits. AY**

Supreme Court's role in interpreting constitutional rights, including the freedom of expressions and religion, privacy and autonomy, and equal protection of law.

**PLS 439. Dangerous Words: The First Amendment To The Constitution. 3 credits. 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 credits. 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 459. Marxism. 3 credits. 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: PHL 201, PHL 250, PHL 312, or PHL 320.

**PLS 461. Contemporary Political Theory. 3 credits. 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 credits. 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 credits. 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 credits. SP**

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 credits. SU (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 credits. OD (Same as AMS 482, BKS 482, HIS 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.

**PLS 483. Public Affairs Internship. 1-6 credits. FA, SP, SU**

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 credits. SP**

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 credits. FA, SP, SU**

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 credits. OD**

Intensive survey of selected seminal authors in political science. P: Jr. stdg.

**PLS 490. Advanced Research Practicum. 1-3 credits. 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 credits. FA, SP, SU**

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 granted. P: IC.

**PLS 497. Directed Independent Research. 1-3 credits. FA, SP, SU**

Individual research and writing under the direction of a consenting instructor in the department. May be repeated to a limit of six hours. P: IC.

**PLS 510. The New Institutionalism. 3 credits.**

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 credits. OD (Same as HAP 520)**

Application of research methods tools to public management issues. Reviews basics of research design with attention to public management applications such as benchmarking. Covers the use and interpretation of key statistical methods in public management applications. Introduces use of other quantitative methods such as cost/benefit analysis and qualitative methods such as focus groups. P: IC.

**PLS 530. Advanced Statistics for Political Science. 3 credits.**

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 or CO: PLS 215 and PLS 310.

**PLS 537. International Law. 3 credits. SP**

Contemporary nation-states are creations of international law. Course engages the many controversies over who is subject to this law, how the law is created and enforced, and the relationship of international law and international politics. Didactic and case-study approach. Substantial research and.

**PLS 591. Senior Research Seminar In Political Science. 3 credits. FA**

Students work in seminar environment on original research project and prepare individual senior theses required for graduation. P: Sr. stdg. and PLS 310 or DC.

**RDA 520. Math Fundamentals for the Social Sciences. 3 credits.**

Math Fundamentals for the Social Sciences, is designed to provide a systematic study of the basic concepts in mathematics. This is a required course for students in the track in Research Design and Analysis (RDA) within the graduate program in international relations (INR). The goal of the course is to develop theoretical mathematical skills to prepare students for research in quantitative problem solving.

**RDA 525. Computer Applications. 3 credits.**

Computer Applications is an introduction to cutting edge, open source technologies used by researchers all over the world. It gives students the technical skills to process data, visualize data, and produce complex, yet elegant, research papers and analytical reports.

**RDA 535. Games and Models. 3 credits.**

The seminar builds on students' understanding of research design. Students consider how to use game theory and formal mathematical approaches to model theories, derive hypotheses from these models, and propose appropriate tests of the hypotheses.

**B.A., Major in International Relations****B.A., Major in International Relations Requirements: 37 Credits**

PLS 105	Introduction to World Politics <sup>1</sup>	3
PLS 121	American Government And Politics	3
PLS 215	Comparative Political Systems	3
PLS 310	Political Science Research Methods	4
PLS 340	International Politics	3
PLS 591	Senior Research Seminar In Political Science <sup>2</sup>	3
Select six credits from the following:		6
PLS 345	International Political Economy	
PLS 347	International Regimes	
PLS 435	Global Poverty and Development	
PLS 472	International Conflict	
Select twelve credits from the following:		12
PLS 301	Western European Political Systems	
PLS 303	Politics Of Russia And The USSR Successor States	
PLS 305	Eastern European Political Systems	
PLS 313	Politics of the Middle East	
PLS 315	Politics of Asia	
PLS 316	Government and Politics of People's Republic of China	
PLS 317	Latin American Government And Politics	
PLS 319	Politics Of The Developing Areas	
PLS 341	Issues And Challenges In American Foreign Policy	
PLS 342	Foreign Policy And Diplomacy Of Major Powers	
PLS 343	National Security and Strategic Studies	
PLS 345	International Political Economy	
PLS 347	International Regimes	
PLS 401	The European Union	
PLS 405	Ethnicity, Nationalism and Democracy	
PLS 407	Revolutions and Revolutionary Movements	
PLS 410	Seminar On Comparative Politics	
PLS 411	Politics of Africa	
PLS 435	Global Poverty and Development	
PLS 440	Seminar on International Relations	

PLS 472	International Conflict	
PLS 481	Poverty, Development and Public Policy	
PLS 510	The New Institutionalism	
PLS 537	International Law	
Total Credits		37

- Students beginning this major in their Sophomore year should substitute an upper-level political science course for this requirement.
- This course is offered only in the fall semester, and **may not** be taken on an independent study or transfer basis.

### Requisite Courses for International Relations Major

ECO 203 Introductory Microeconomics and ECO 205 Introductory Macroeconomics. Mastery of a modern language is strongly urged for students pursuing the INR major.

## B.A., Major in Political Science: Legal Studies Track

### Specific Requirements for Admission to the Political Science Major

PLS 121 American Government And Politics or PLS 215 Comparative Political Systems are normally prerequisites for other political science courses for a department major.

### B.A., Major in Political Science: Legal Studies Track Requirements: 34 Credits

#### Required PLS Major Courses

PLS 121	American Government And Politics	3
PLS 215	Comparative Political Systems	3
PLS 310	Political Science Research Methods	4
PLS 591	Senior Research Seminar In Political Science <sup>1</sup>	3

#### Legal Studies Track Courses

PLS 320	Judicial Process	3
PLS 337	Constitutional Law	3
PLS 390	Philosophy of Law	3
PLS 537	International Law	3
Three credits in either International Relations or Comparative Politics subfield		3
Select six credits in either American Government/Politics or Public Policy/Law subfield		6
Total Credits		34

- This course is offered only in the fall semester, and **may not** be taken on an independent study or transfer basis.

## Requisite Courses for Legal Studies Track

Students will select six credits from the following: BUS 201 Legal Environment of Business, BUS 301 Business Law, ECO 203 Introductory Microeconomics, ECO 205 Introductory Macroeconomics, JRM 529 Law of Mass Communication, PLS 356 Constitutional Issues, PSY 363 Psychology and the Law, SOC 321 Sociology of the Criminal Justice System, SOC 423 Law and Society.

## B.A., Major in Political Science: Political Science Track

### Specific Requirements for Admission to the Political Science Major

PLS 121 American Government And Politics or PLS 215 Comparative Political Systems are normally prerequisites for other political science courses for a department major.

### B.A., Major in Political Science: Political Science Track Requirements: 40 Credits

#### Required PLS Major Courses

PLS 121	American Government And Politics	3
PLS 215	Comparative Political Systems	3
PLS 310	Political Science Research Methods	4
PLS 591	Senior Research Seminar In Political Science <sup>1</sup>	3

#### Political Science Track Courses

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: 21

#### American Government and Politics

PLS 320	Judicial Process
PLS 321	American Tribal Indian Government and Politics
PLS 322	American Presidency
PLS 323	Campaign Management
PLS 324	Congress And The Legislative Process
PLS 325	American States and Regions
PLS 326	Governing Metropolitan Areas
PLS 327	Minority Politics in America
PLS 328	Mass Media In American Politics
PLS 329	Gender and Politics
PLS 331	Managing The Public And Non-Profit Sectors
PLS 420	Seminar On American Government And Politics
PLS 421	Public Opinion, Political Behavior And Survey Research
PLS 437	Religion And Public Life In The United States
PLS 465	Faith and Political Action

PLS 482	Race In America: Idea And Reality
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### **Comparative Politics**

PLS 301	Western European Political Systems
PLS 303	Politics Of Russia And The USSR Successor States
PLS 305	Eastern European Political Systems
PLS 313	Politics of the Middle East
PLS 315	Politics of Asia
PLS 316	Government and Politics of People's Republic of China
PLS 317	Latin American Government And Politics
PLS 319	Politics Of The Developing Areas
PLS 401	The European Union
PLS 405	Ethnicity, Nationalism and Democracy
PLS 407	Revolutions and Revolutionary Movements
PLS 410	Seminar On Comparative Politics
PLS 411	Politics of Africa
PLS 435	Global Poverty and Development
PLS 465	Faith and Political Action
PLS 481	Poverty, Development and Public Policy
PLS 510	The New Institutionalism

### **International Relations**

PLS 340	International Politics
PLS 341	Issues And Challenges In American Foreign Policy
PLS 342	Foreign Policy And Diplomacy Of Major Powers
PLS 343	National Security and Strategic Studies
PLS 345	International Political Economy
PLS 347	International Regimes
PLS 435	Global Poverty and Development
PLS 440	Seminar on International Relations
PLS 472	International Conflict
PLS 537	International Law

### **Political Philosophy and Theory**

PLS 357	Alternative Political Futures
PLS 360	Liberal Democracy And Its Critics
PLS 362	Conservative Political Thought
PLS 365	Classics of Political Thought
PLS 390	Philosophy of Law
PLS 432	Democratic Theory
PLS 459	Marxism
PLS 461	Contemporary Political Theory
PLS 463	Game Theory And Social Choice
PLS 510	The New Institutionalism

**Public Policy and Law**

PLS 333	Environmental Politics And Policy	
PLS 334	Public Policy and Healthcare	
PLS 335	Federal Indian Policy and Law	
PLS 337	Constitutional Law	
PLS 339	Public Policy And Poverty In The United States	
PLS 356	Constitutional Issues	
PLS 372	Equality, Minorities, And Public Policy	
PLS 433	Public Policy Analysis	
PLS 435	Global Poverty and Development	
PLS 436	Politics And Ethics Of Science And Technology	
PLS 437	Religion And Public Life In The United States	
PLS 438	Contemporary Issues In Civil Liberties	
PLS 439	Dangerous Words: The First Amendment To The Constitution	
PLS 481	Poverty, Development and Public Policy	

**Select six additional credits in Political Science at or above the 200 series from the subfields above with the approval of the major advisor.** 6

Total Credits 40

<sup>1</sup> This course is offered only in the fall semester, and **may not** be taken on an independent study or transfer basis.

## B.A., Major in Political Science: Public Policy Track

### Specific Requirements for Admission to the Political Science Major

PLS 121 American Government And Politics or PLS 215 Comparative Political Systems are normally prerequisites for other political science courses for a department major.

### B.A., Major in Political Science: Public Policy Track Requirements: 34 Credits

#### Required PLS Major Courses

PLS 121	American Government And Politics	3
PLS 215	Comparative Political Systems	3
PLS 310	Political Science Research Methods	4
PLS 591	Senior Research Seminar In Political Science <sup>1</sup>	3

#### Public Policy Track Courses

PLS 331	Managing The Public And Non-Profit Sectors	3
PLS 433	Public Policy Analysis	3

Public Policy

Select six credits from Public Policy electives:	6
PLS 333	Environmental Politics And Policy
PLS 334	Public Policy and Healthcare
PLS 337	Constitutional Law
PLS 372	Equality, Minorities, And Public Policy
PLS 435	Global Poverty and Development
PLS 436	Politics And Ethics Of Science And Technology
PLS 438	Contemporary Issues In Civil Liberties
PLS 481	Poverty, Development and Public Policy
American Institutions	
Select three credits from American Institutions:	3
PLS 320	Judicial Process
PLS 322	American Presidency
PLS 324	Congress And The Legislative Process
PLS 325	American States and Regions
PLS 326	Governing Metropolitan Areas
Select three credits in comparative politics at the 300 or 400 level.	3
Select three credits in international relations at the 300 or 400 level.	3
Recommended	
PLS 483	Public Affairs Internship
Total Credits	34

<sup>1</sup> This course is offered only in the fall semester, and **may not** be taken on an independent study or transfer basis.

## Requisite Courses for Public Policy Track

ECO 203 Introductory Microeconomics, ECO 205 Introductory Macroeconomics.

# B.A. Major in Political Science: Research Design and Analysis Track

## Specific Requirements for Admission to the Political Science Major

PLS 121 American Government And Politics or PLS 215 Comparative Political Systems are normally prerequisites for other political science courses for a department major.

## B.A., Major in Political Science: Research Design and Analysis Track Requirements: 40 Credits

*The track in Research Design and Analysis (RDA) is designed to prepare students to meet the burgeoning demand for hard analytical skills in business, government, and the non-profit sector.*

**Required PLS Major Courses**

PLS 121	American Government And Politics	3
PLS 215	Comparative Political Systems	3
PLS 310	Political Science Research Methods	4
PLS 591	Senior Research Seminar In Political Science <sup>1</sup>	3

**Research Design and Analysis Track Courses**

PLS 530	Advanced Statistics for Political Science	3
Select 12 credits from the following:		12
PLS 463	Game Theory And Social Choice	
PLS 490	Advanced Research Practicum	
PLS 510	The New Institutionalism	
RDA 520	Math Fundamentals for the Social Sciences	
RDA 525	Computer Applications	
RDA 535	Games and Models	
SOC 570	Introduction to Geographic Information Systems	

Select 12 credits in Political Science at the 200 level or above. 12

An internship with an agency, business, or non-profit where the student will employ his/her data analysis skills is strongly encouraged:

PLS 483	Public Affairs Internship	
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Total Credits 40

<sup>1</sup> This course is offered only in the fall semester, and **may not** be taken on an independent study or transfer basis.

## International Relations Minor

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.

### Minor in International Relations Requirements: 18 credits

PLS 340	International Politics	3
Select fifteen credits from the following:		15
PLS 341	Issues And Challenges In American Foreign Policy	
PLS 342	Foreign Policy And Diplomacy Of Major Powers	
PLS 343	National Security and Strategic Studies	
PLS 345	International Political Economy	
PLS 347	International Regimes	
PLS 435	Global Poverty and Development	
PLS 440	Seminar on International Relations	

PLS 472	International Conflict	
PLS 481	Poverty, Development and Public Policy	
PLS 537	International Law	
Total Credits		18

## Legal Studies Minor

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.

### Minor in Legal Studies Requirements: 18 credits

PLS 337	Constitutional Law	3
PLS 320	Judicial Process	3
PLS 390	Philosophy of Law	3
PLS 537	International Law	3
Select two of the following:		6
BUS 201	Legal Environment of Business	
HIS 354	Constitutional History Of The United States To 1877	
HIS 355	Constitutional History of the United States Since 1877	
JRM 529	Law of Mass Communication	
PLS 438	Contemporary Issues In Civil Liberties	
PLS 439	Dangerous Words: The First Amendment To The Constitution	
PLS 324	Congress And The Legislative Process	
PSY 363	Psychology and the Law	
SOC 321	Sociology of the Criminal Justice System	
SOC 423	Law and Society	

Total Credits		18
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## Political Science Minor

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.

### Minor in Political Science Requirements: 19 credits

PLS 121	American Government And Politics	3
PLS 215	Comparative Political Systems	3

PLS 310	Political Science Research Methods	4
Select three additional courses in Political Science numbered 300 and above.		9
Total Credits		19

## Public Policy Minor

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.

### Minor in Public Policy Requirements: 18 credits

#### Policy Process

Select six credits from the following:		6
PLS 320	Judicial Process	
PLS 322	American Presidency	
PLS 324	Congress And The Legislative Process	
PLS 325	American States and Regions	
PLS 326	Governing Metropolitan Areas	
PLS 328	Mass Media In American Politics	

#### Policy Skills

Select six credits from the following:		6
PLS 323	Campaign Management	
PLS 331	Managing The Public And Non-Profit Sectors	
PLS 465	Faith and Political Action	
PLS 433	Public Policy Analysis	
PLS 483	Public Affairs Internship	

#### Substantive Policy Areas

Select six credits from the following:		6
PLS 329	Gender and Politics	
PLS 333	Environmental Politics And Policy	
PLS 334	Public Policy and Healthcare	
PLS 335	Federal Indian Policy and Law	
PLS 339	Public Policy And Poverty In The United States	
PLS 341	Issues And Challenges In American Foreign Policy	
PLS 342	Foreign Policy And Diplomacy Of Major Powers	
PLS 372	Equality, Minorities, And Public Policy	
PLS 435	Global Poverty and Development	
PLS 436	Politics And Ethics Of Science And Technology	
PLS 463	Game Theory And Social Choice	

## Psychology

Chair: Gary Leak

Associate Chair: T.L. Budesheim

Department Office: Hixson-Lied Science Building, Room 302

The Psychology Department designs its courses and programs to provide

1. one facet of the multidisciplinary study of humans,
2. a personal and scientific understanding of behavior and mental processes,
3. preparation for employment in a business, a social agency, or in secondary education, and
4. preparation for continued study in a graduate school of psychology or in one of the professional schools.

### Major in Psychology

#### Specific Requirements for Admission to the Psychology Major

Completion of PSY 111 Introductory Psychology, 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 (p. 455)

### Minor in Psychology

- Behavioral and Cognitive Neuropsychology (p. 457)

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 the College of Professional Studies

This department offers the following certificate program to students in the College of Professional Studies:

- Psychology (p. 615)

### Courses

#### **PSY 111. Introductory Psychology. 3 credits. FA, SP, SU**

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 201. Introductory Psychology. 3 credits.**

Introduction to the methods used in the psychological science and basic concepts, findings, and theories in the study of behavior and mental processes.

**PSY 211. Introductory Statistics. 3 credits. FA, SP**

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. Note: This course does not fulfill any of the requirements of the psychology major.

**PSY 270. Personal Growth And Development. 3 credits. SP**

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 credits. 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. Psychology Of Separation And Loss. 3 credits. FA**

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 311. Research Methods In Psychology (Experimental Psychology). 3 credits.**

Basic principles of experimental design, types of research, confounding, strategies of control, procedures of data collection and analysis, and ethics in the conduct of research. 3R. P: PSY 111, 112, 211. CO: PSY 312.

**PSY 313. Research Methods And Statistics I. 3 credits. FA, SP**

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 315. Research Methods And Statistics II. 3 credits. FA, SP**

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 credit. FA, SP**

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: 315.

**PSY 326. Undergraduate Internship In Psychology. 3-4 credits. FA, SP**

Provides advanced students with opportunities for field experience in clinical/counseling and human services. 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 credits. FA, SP**

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. P: PSY 111. Students enrolled in this course are required to volunteer 16 hours during the semester with children in placements arranged by the instructor.

**PSY 342. Adolescent And Adult Development. 3 credits. SP**

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 credits. FA, SP**

Principles and theories of personality from a scientific perspective. P: PSY 111.

**PSY 344. Social Psychology. 3 credits. FA, SP**

Exploration of the social factors that influence individual behavior and mental processes. Areas covered include social cognition, persuasion, conformity, aggression, altruism, and perceiving others. P: PSY 111.

**PSY 351. Abnormal Psychology. 3 credits. FA, SP, SU**

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 credits. FA**

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 credits. FA**

An overview of industrial (personnel) and engineering (human factors) psychology. including the changing nature of work. Topics include technology in the workplace, test development and validation, job analysis, personnel selection, performance appraisal, training, and legal issues in personnel. P: PSY 111.

**PSY 361. Neuropsychology. 3 credits. FA**

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 363. Psychology and the Law. 3 credits. FA**

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 credits. 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.

**PSY 369. Organizational Psychology. 3 credits. SP**

An overview of organizational psychology. Topics include motivation, leadership, group processes, organizational stress, job satisfaction, communication processes, decision theory, power, and organizational effectiveness, development, and change. P: PSY 111.

**PSY 374. Human Sexuality. 3 credits. FA**

An empirical basis for understanding human sexuality; examination of personal sexual values and standards in the context of the physiological, psychological, and socio-cultural components of human sexuality. P: PSY 111; Jr. stdg. Not open to students enrolling as auditors.

**PSY 376. School Psychology. 3 credits. SP**

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 credits. SP**

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 credits. 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 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, cognitive ability assessment, aptitude and ability testing. P: PSY 111.

**PSY 424. History And Systems Of Psychology. 3 credits. FA**

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 credits. FA**

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 in our evolutionary past, and understanding these procedures can unify diverse areas of psychology. P: PSY 111; Jr. or Sr. Stdg.

**PSY 428. Multicultural Issues in Psychology. 3 credits. FA, SP (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 credits. FA, SP**

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 credits. FA**

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 credits. FA, SP**

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 credits. 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 credits. FA, SP**

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 credits. SP**

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 credits. FA**

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 credits. 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: PSY 315, PSY 316;IC.

**PSY 471. Crisis Intervention. 3 credits. SU**

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 credits. 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 credits. OD (Same as WGS 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 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: PSY 111.

**PSY 474. Undergraduate Internship In Industrial/Organizational Psychology. 3-4 credits. 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 475. Clinical Psychology. 3 credits.**

The purpose will provide students with an overview of the history, roles, responsibilities, activities, and theories in the field of clinical psychology. Topics include the history of clinical psychology, theoretical models, assessment and intervention approaches, specialization, ethics, and current trends in the field. P: PSY 201.

**PSY 481. Drugs and Behavior. 3 credits. FA**

This course will provide an overview of psychotropic drugs, both legal and illegal. Topics will include basic psychopharmacology, physiological brain effects, historical and current drug and drug-war American culture, social impacts and controversial issues related to drug use and abuse.

**PSY 491. Honors Seminar. 3 credits. FA**

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 credits. FA, SP, SU**

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 credits. FA, SP, SU**

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. Introduction to Counseling: Professional Orientation and Ethics. 3 credits. FA, SU (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 credits. FA (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.

## B.A., Major in Psychology

### B. A., Major in Psychology Requirements: 37 Credits

**Group A: Introduction and Fundamental Methodologies of Psychology (10 credits)**

Students must complete all courses in Group A.

PSY 111	Introductory Psychology	3
PSY 313	Research Methods And Statistics I	3
PSY 315	Research Methods And Statistics II	3
PSY 316	Research Methods And Statistics II Laboratory	1

**Group B: Foundational Domains in Psychology (15 credits)**

Students complete one course from each of the following four domains.

Domain 1		3
PSY 431	Cognitive Psychology	
or PSY 434	Learning: Basic Processes	
Domain 2		3

PSY 436 or PSY 437	Sensation and Perception Physiological Psychology	
Domain 3		3
PSY 341 or PSY 342 or PSY 351	Infant and Child Development Adolescent And Adult Development Abnormal Psychology	
Domain 4		3
PSY 344 or PSY 343	Social Psychology Psychology of Personality	
Fifth Domain Course		3
Students select a fifth course from the four domains above.		
<b>Group C: Applications of Psychology (3 credits)</b>		
Students must complete one of the following courses.		3
PSY 352	Health Psychology	
PSY 353	Industrial Psychology	
PSY 363	Psychology and the Law	
PSY 367	Contemporary Trends in Psychology	
PSY 369	Organizational Psychology	
PSY 376	School Psychology	
PSY 423	Psychological Assessments	
PSY 463	Forensic Psychology	
<b>Group D: Senior Capstone Courses (3 credits)</b>		
Students must take one class. To enroll in Group D students must have completed Group A and B requirements or be of senior status.		3
Application Capstones		
PSY 326 or PSY 474	Undergraduate Internship In Psychology Undergraduate Internship In Industrial/Organizational Psychology	
Integration Capstones		
PSY 424 or PSY 426 or PSY 428	History And Systems Of Psychology Evolutionary Psychology Multicultural Issues in Psychology	
Research Capstones		
PSY 491 or PSY 465	Honors Seminar Advanced Behavioral Research	
<b>PSY Elective Courses</b>		
Students complete 6 credits (2 courses). <sup>1</sup>		6
Total Credits		37

<sup>1</sup> PSY 495 and/or PSY 497 can only account for 3 credits. SWK 261 and BIO 571 also count as electives.

# Behavioral and Cognitive Neuropsychology Minor

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.

## Minor in Behavioral and Cognitive Neuropsychology Requirements: 18 Credits

PSY 111	Introductory Psychology	3
PSY 211	Introductory Statistics	3
PSY 437	Physiological Psychology	3
Select nine credits from the following two groups: <sup>1</sup>		9
<b>Physiological Aspects of Neuropsychology</b>		
PSY 361	Neuropsychology	
PSY 436	Sensation and Perception	
PSY 481	Drugs and Behavior	
PHR 350	Introduction to Neuropharmacology	
<b>Cognitive and Association Aspects of Neuropsychology</b>		
PSY 352	Health Psychology	
PSY 431	Cognitive Psychology	
PSY 434	Learning: Basic Processes	
<hr/> Total Credits		18

<sup>1</sup> Select at least one course from each group.

## Senior Perspective

Program Contact: Jerold J. Abrams, Humanities Center, Room 303

The goal of these courses 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.

## Courses

### **SRP 401. Science and Uncertainty in a Pluralistic World. 3 credits. 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. P: Sr. stdg. and PHL 250 or THL 250.

### **SRP 409. Race and Gender Relations: Moral and Ethical Dilemmas. 3 credits. 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. P: Sr. stdg. and PHL 250 or THL 250.

### **SRP 412. Sickness, Disability, and Healing in the Biblical and Modern Worlds. 3 credits. 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. P: Sr. stdg. and PHL 250 or THL 250.

### **SRP 415. Stories that Shape Lives. 3 credits. 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. P: Sr. stdg. and PHL 250 or THL 250.

### **SRP 416. For the Greater Glory: The Jesuits, Their History and Spirituality. 3 credits. 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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 418. Jesus Through the Ages: Ideas and Images Toward a Coherent Christian Identity and Ethic. 3 credits. (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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 420. Science and Religion. 3 credits. 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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 422. Children of Poverty: An Interdisciplinary Perspective. 3 credits. 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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 424. Sustainability and Rural America. 3 credits. (Same as EVS 424, NAS 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: Sr. stdg. and PHL 250 or THL 250.

**SRP 425. Myths That We Live By. 3 credits. (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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 428. Film and the Fine Arts. 3 credits. OD (Same as 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: Sr. stdg. and PHL 250 or THL 250.

**SRP 430. Ethics and Market Reforms in the Post-Communist Countries. 3 credits. OD (Same as PLS 430)**

This senior capstone seminar considers ethical problems that have emerged during the course of the market reforms and democratization in the post-Communist countries of Eastern Europe. Conducted abroad, the seminar gives students an opportunity to reflect on these moral and ethical dilemmas in the actual environment. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 431. Mathematical History, Philosophy, and Ethics. 3 credits. 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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 434. Philosophy of East Asian Literature and Film. 3 credits. (Same as PHL 434)**

This course is a philosophical investigation into the moral values expressed in East Asian literature and film. Study of a wide range of master works will ground an examination of how Buddhism, Confucianism, and Daoism function in the lives of the peoples of eastern Asia. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 435. Literature, Philosophy and Economics: Critical Representations of Commercial Life. 3 credits. OD (Same as ENG 435, PHL 435)**

Drawing on contemporary work in critical theory, literary criticism, aesthetics, and rhetoric, this course examines the relations of philosophy, economics, and literature through an assessment of the representation of economic phenomena in selected literary and philosophical texts. The course will explore 1) how an analysis of such texts can reveal underlying social forms such as private property, the commodity, wage labor, and capital; and 2) how these ethically consequential forms tie in with problems of poverty, unequal distributions of income and wealth, overconsumption and depletion of natural resources, competition and conflict, and social instability. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 436. Politics and Ethics of Science and Technology. 3 credits. 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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 437. The Environment and Race, Class, and Gender. 3 credits. 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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 438. Literacy and Community: Reading and Writing Toward Social Change. 3 credits. (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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 439. Literacy and Technology: How Technology Shapes Cultural Literacy. 3 credits. 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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 440. Liturgy, Music, and the Transformed Life. 3 credits. 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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 441. Education, Vocation and Discernment Through Writing. 3 credits.**

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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 448. Freedom and Security in a Digital-Divided Society. 3 credits. (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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 450. Violence in America: Nature, Consequences and Personal Responses. 3 credits. (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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 451. Science and Values. 3 credits.**

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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 455. Food, Society, and Environment. 3 credits. 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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 456. Public Health Ethics. 3 credits. (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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 457. Biomedical Ethics: Philosophical and Theological Approaches. 3 credits. OD (Same as HAP 457, PHL 457, THL 457)**

An exploration of relations between philosophical and theological conceptions of ethics and moral methodologies, together with an application of the latter to select issues in biomedicine and health care policy. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 458. Theology and the Vocation to Health Care. 3 credits. (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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 460. Humanity and the Concept of the Future. 3 credits. (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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 465. Faith and Political Action. 3 credits. OD (Same as JPS 465, PLS 465)**

This course challenges students to understand theological and political science perspectives on social policy issues, public policy analysis, and advocacy strategies, and allows the students to practice these new skills/understandings in a service-learning project for a local agency. In addition to class time, the course requires twenty hours of volunteer service for the agency during the semester. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 468. Christianity and Power: A Russian Case Study. 3 credits. 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 ideas of Russian Orthodoxy and measures them against the goals and actions of the Russian state. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 469. Psychological and Theological Approaches to Vocation. 3 credits. (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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 470. Poverty in America. 3 credits. (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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 475. Multiculturalism: History, Philosophy, Literature, and Education. 3 credits. 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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 477. Gendered Health Across the Lifespan. 3 credits. (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 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 or THL 250.

**SRP 478. Intersections of Working and Personal Life. 3 credits. (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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 479. Communication and Theology. 3 credits. (Same COM 479, THL 479)**

This course explores communication from a Christian perspective. Christian values such as charity, justice, freedom, human dignity, reconciliation, and peace as developed in Sacred Scripture, Church documents, and by great Christian thinkers are applied critically to issues and cases from three areas of communication studies: Interpersonal Communication, Organizational Communication, and Mass Communication.

**SRP 481. Poverty, Development and Public Policy. 3 credits. 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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 482. Race In America: Idea and Reality. 3 credits. OD (Same as AMS 482, BKS 482, HIS 482, PHL 482, 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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 487. The Bible and the Holocaust. 3 credits.**

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. P: Sr. stdg.; THL 250 or PHL 250.

**SRP 488. Personal and Spiritual Dimensions of Leadership. 3 credits. 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. P: Sr. stdg. and PHL 250 or THL 250.

**SRP 489. American Prisons: Punish or Reform. 3 credits. (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. P: Sr. stdg. and PHL 250 or THL 250.

## Sociology, Anthropology, and Social Work

Chair: Rebecca Murray

Department Office: Creighton Hall, Room 437

### Sociology and Anthropology

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.

### Social Work

<http://www.creighton.edu/ccas/social-work>

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.

## Majors in Sociology, Anthropology and Social Work

- B.A., Major in Cultural Anthropology (p. 477)
- B.A., Major in Medical Anthropology (p. 479)

- B.A., Major in Justice and Society (p. 478)
- B.S.W., Major in Social Work (p. 483)
- B.S., Major in Sociology: Standard Sociology Track (p. 482)
- B.S., Major in Sociology: Applied Research Methods Track (p. 480)
- B.S., Major in Sociology: Criminal Justice Policy Track (p. 481)

## Minors in Sociology, Anthropology and Social Work

- Anthropology (p. 484)
- Applied Research Methods in Sociology and Anthropology (p. 484)
- Criminal Justice Policy (p. 485)
- Medical Anthropology (p. 486)
- Sociology (p. 486)

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.

## Courses

### **ANT 101. Introduction to Native American Studies: Anthropological Approaches. 3 credits. FA, SP (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 credits. FA, SP (Same as HIS 108, NAS 108)**

A survey of the development of Native American society and culture from their appearance on the continent to the present emphasizing the evolution of cultural, political, and social systems and the consequences of contact with Euro-American cultures. P: HIS 101.

### **ANT 111. Introduction to Anthropology: Human and Cultural Diversity. 3 credits. FA, SP**

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 credits.**

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 113. Introduction to Anthropology: Social and Cultural Determinants of Health. 3 credits.**

Anthropology offers a comprehensive understanding of the biological and cultural unity and diversity of humans. This introductory course will introduce students to the topics, theories, and methods of the discipline, applied to the scientific study of the social and cultural determinants of health, following anthropology's comparative and holistic approach. Students will examine a variety of topics including culture, ethnicity and race, language and communication, economic systems, political systems, kinship and social organization, gender, religion, art, and social and cultural change. They will learn how these components of human life influence health and help us to understand the social and cultural determinants of health.

**ANT 244. Cross-Cultural Communication. 3 credits. ENY, SP (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 credits. FA, SP (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 credits. FA (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. Quantitative Methods in the Social Sciences. 3 credits. FA, SP (Same as HAP 312, SOC 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.

**ANT 314. Statistics for the Social Sciences. 4 credits. FA, SP (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. P or CO: SOC 312.

**ANT 315. Healthcare, Society and Culture. 3 credits. FA (Same as HAP 315, SOC 315)**

Study of the relationship between society and health care systems. The sociology of health care organization, including patient-practitioner relationships, concepts of health and disease, healthcare personnel, and systems of delivery. P: Introduction to Anthropology (ANT 111 or ANT 112 or ANT 113) or Introduction to Sociology (SOC 101 or SOC 102) or HAP major.

**ANT 316. Qualitative Methods In The Social Sciences. 3 credits. SP (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 credits. ONY, SP (Same as AFS 317, HAP 317, SOC 317)**

This course will examine the social production of health and disease from a global perspective. Related to these issues, is the topic of health and well-being in developing countries. P: So. stdg.

**ANT 324. Native American World View, Culture and Values. 3 credits. ONY, SP (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, or (c) PHL 312, or (d) PHL 320.

**ANT 331. Indians of the Great Plains. 3 credits. OD (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 Social Change. 3 credits. OD (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 credits. OD (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. This course will be graded on a SA/UN basis. P: So. stdg.

**ANT 341. American Cultural Minorities. 3 credits. FA (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 credits. ENY, SP (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 credits. OD (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 credits. FA (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 352. Witchcraft, Oracles and Magic: Anthropological Study of Religion. 3 credits. OD (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 credits. SP (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 credits. OD (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: So. stdg.

**ANT 360. Gender, Society and Culture. 3 credits. SP (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 credits. FA, SP**

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: So. stdg.

**ANT 383. Cultural Epidemiology: Global Perspectives. 3 credits. ONY, SP (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. P: ANT 315 or 363.

**ANT 385. Community Internship I, II. 3 credits. FA, SP, SU**

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.; ANT/SOC major; IC; 2.5 QPA.

**ANT 411. Social Inequality and Stratification. 3 credits. SP (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 credits. ENY, SP, SU (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: Sr. stdg. and PHL/THL 250.

**ANT 442. Cultural Communication. 3 credits. (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 credits. SP (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 credits. FA, SP, SU**

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.

**ANT 495. Directed Independent Study. 1-6 credits. FA, SP, SU**

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 credits. FA, SP, SU**

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. Senior Capstone: Applying the Social Sciences. 3 credits. SP (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: Sociology/Anthropology Senior; SOC/ANT 301; SOC/ANT 312, 314 and/or 316 as required by major.

**ANT 525. Archaeological Fieldwork and Analysis. 3 credits. SU (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 credits. SU (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. Introduction to Geographic Information Systems. 4 credits. ENY, SP (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/ANT 3012 or IC.

**SOC 101. Introduction to Sociology: Self and Society. 3 credits. FA, SP, SU**

Human beings live out their lives in a multitude of social relationships. This course explores the meaning of these relationships by considering four questions: (1) How is social life organized? (2) What consequences does this social organization produce? (3) How does social organization change? (4) How does this organization affect individuals?.

**SOC 102. Introduction to Sociology: Social Problems. 3 credits. FA (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 credits. FA, SP (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 credits. FA (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 credits. ENY, FA (Same as BKS 309)**

Examination of the process of urbanization as it affects the lives and institutions of local populations and incorporates them into much larger national and international systems. P: So. stdg.

**SOC 310. Religion And Contemporary American Society. 3 credits.**

An examination of religious beliefs, behaviors, and structures as they relate to contemporary America. In addition to studying established religious forms, attention is also given to the public controversies connected with religion and to new religious movements and trends. P: So. stdg.

**SOC 312. Quantitative Methods in the Social Sciences. 3 credits. FA, SP (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. Statistics for the Social Sciences. 4 credits. FA, SP (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. P or CO: SOC 212.

**SOC 315. Healthcare, Society and Culture. 3 credits. FA (Same as ANT 315, HAP 315)**

Study of the relationship between society and health care systems. The sociology of health care organization, including patient-practitioner relationships, concepts of health and disease, healthcare personnel, and systems of delivery. P: Introduction to Anthropology (ANT 111 or ANT 112 or ANT 113) or Introduction to Sociology (SOC 101 or SOC 102) or HAP major.

**SOC 316. Qualitative Methods In The Social Sciences. 3 credits. SP, SU (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 credits. ONY, SP (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 credits. ENY, SP (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 credits. FA**

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 credits. FA**

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 322. Victim Advocacy Policy and Practice. 3 credits.**

This is an intensive five-day course. The goal of this course is to increase the knowledge base of participants interested in victim assistance to become more skilled in their approach thereby building the capacity of advocates, service providers and law enforcement to help victims of crime regain control of their lives. Through exploration of existing research on best practices, case analysis, and inter-professional dialogue participants develop a baseline understanding of existing practices and explore creative approaches to serving as victim advocates. P: Approval to the academy by faculty.

**SOC 325. Perspectives on Aging. 3 credits.**

An introduction to gerontology, the study of human aging. Physical, psychological, and social policy aspects of aging and historical, cross-cultural, and social policy aspects of aging populations are examined. Aging is viewed both as a personal experience and as a social process. Opportunities provided for pursuing personal interests. P: So. stdg.

**SOC 335. Technology and Social Change. 3 credits. ONLY, SP (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 credits. FA (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 355. Environment and Society: Sociological Perspectives. 3 credits. SP (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 credits. FA (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 credits. FA, SP, SU**

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 QPA.

**SOC 411. Social Inequality and Stratification. 3 credits. SP (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 credits. SP**

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 credits. ENY, SP, SU (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 credits. ENY, SP (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 credits. FA, SP, SU**

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.

**SOC 495. Directed Independent Study. 1-6 credits. FA, SP, SU**

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 Study. 1-6 credits. FA, SP, SU**

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. Senior Capstone: Applying the Social Sciences. 3 credits. SP (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. Introduction to Geographic Information Systems. 4 credits. ENY, SP (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.

**SWK 261. Social Welfare Needs of Vulnerable Populations: Exploring Helping Role from Social Work Perspective. 3 credits. FA, SP**

How do people become vulnerable? Is social welfare a private issues or a public concern? How are the needs of the vulnerable identified and addressed? This survey course identifies several social welfare issues such as poverty, homelessness, family neglect and abuse, mental health, health care and criminal justice. All of these areas are inherently complex revealing issues of social justice. Through study of research, exploration of cultural, personal and religious values this course examines how Social Work, like many disciplines works to assist, amend or alleviate the vulnerability of individuals, families and communities. CO: COM 101.

**SWK 275. Human Behavior and the Social Environment. 4 credits. FA**

Why do people behave as they do? Is it genetics, psychological conditioning, or influences from the social environment? This course provides foundational knowledge and skills to examine human behavior across the lifespan from the biological, psychological, sociological, spiritual, and cultural theoretical/developmental perspectives. It is a cross-disciplinary, intersectional approach to understanding human behavior. Focus is on translational action research.

**SWK 289. Self-Care for the Helping Professions. 1 credit.**

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. This course may be repeated once. P: SWK major or IC.

**SWK 298. Econimcs, Policy and Social Welfare. 3 credits.**

Examines the process of social policy development with a focus on the more vulnerable populations. Social policy will be placed in a historical and a social context. Includes skills needed for policy formulation and analysis.

**SWK 299. Addictions: Substances, Processes and People. 3 credits.**

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 credits. (Same as AMS 335, NAS 335, PLS 335)**

This course investigates the relationships between Native Americans and the Euro-American 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 credits. FA**

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 credit. FA**

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: Social Work major, SWK 261, SWK 275, CO: SWK 345.

**SWK 359. Practice II: Social Work with Groups. 3 credits. FA**

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 credits. FA, SU (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 369. Insurance Coverage for the Health and Human Services. 1 credit.**

Course is intended to survey the range of public and private insurance opportunities specifically focusing on insurance for the poor. Emphasis is on implementation of insurance and policy guidelines, eligibility, requirements, and application processes. The course is intended for health and human service professionals including social workers, nurses, and other mental health professionals. P: SWK 261.

**SWK 371. Social Work Issues. 1-3 credits. FA**

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 credits. SP**

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 credits. SP**

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 credits. SU (Same as ANT 409, SRP 409, WGS 409)**

This course explores the multiple-faceted experience of being a person of color, a specific gender and immigrants in the United States. Institutional forces (economic, educational, familial, political and social welfare) are examined that influence the structure and status of persons of color, immigrants and women and men. Emphasis is understanding the diversity of the United States and the connections between and among race, gender and class and their complexity. Ways to better understand and interact are presented in addition to ways to foster social change. P: PHL 250 or THL 250; Sr. stdg.

**SWK 422. Children of Poverty: An Interdisciplinary Perspective. 3 credits. SU (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 credits. SP**

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 credits. FA, SP**

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, SWK 461; SWK Major.

**SWK 461. Field Practicum I. 4 credits. FA, SP**

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, SWK 460; SWK Major.

**SWK 473. Social Work with Organizations and Communities. 3 credits.**

Provides basic knowledge of social work intervention at the organizational community level. Study of procedures and skills in community organizing and developing and implementing programs. P: SWK 345 or IC; SWK Major.

**SWK 477. Social Work Management and Supervision - Strategies and Techniques. 1 credit.**

Designed to enable students to understand the knowledge base required for organizational management and to apply it in a manner consistent with social work values. Theory application and administration/supervisory skill building within human service non-profit social work settings are examined and applied. P:IC.

**SWK 480. Field Practicum Seminar II. 2 credits. FA, SP**

Seminar designed to integrate theories and skills learned in the classroom with their application in field experience. P: SWK 460, SWL 461; Sr. stdg. CO: SWK 481; SWK Major.

**SWK 481. Field Practicum II. 4 credits. FA, SP**

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, SWK 461; Sr. stdg. CO: SWK 480; SWK Major.

**SWK 493. Directed Independent Readings. 1-6 credits. FA, SP, SU**

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 credits. FA, SP, SU**

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 credits. FA, SP, SU**

Student-initiated empirical project on a focused topic in social work, involving close coordination with a supervising faculty member. May be repeated to a limit of six hours. P: Sr. stdg.; SWK Major; SOC 212; DC.

**SWK 501. Conducting Needs Assessments and Social Programs. 1 credit.**

The purpose of this course is to provide beginning skills in planning and conducting needs assessments to determine whether there is sufficient need to justify the funding of a new human service program. The course is designed to guide students step-by-step through the needs assessment process, from understanding the purpose and goals of the needs assessment to collecting, analyzing, and disseminating information so that decisions can be made about developing and/or funding programs.

**SWK 505. Methods & Strategies for Working with Families & Support Personnel for Exceptional Children & Youth. 3 credits.**

Course designed to address the needs of families of exceptional children and youth and train the support personnel who work with exceptional children. P: Jr. stdg.; EDU 501.

**SWK 511. Grant Writing. 1 credit.**

The course focuses on teaching beginning skills in grant writing. Students will have an opportunity to apply problem solving knowledge to the development of a social service grant. Students may bring grants they are working on or they may complete a "training" grant during the course.

**SWK 521. Program Evaluation for Non-profit Organizations. 1 credit.**

Evaluating the success of a program or policy is important to non-profit and public social service agencies. The purpose of this course is to help students create a program evaluation plan for a social welfare program or policy. Students will use the problem-solving process to evaluate whether a program or policy is meeting its goals or needs modification in order to accomplish its objectives.

## **B.A., Major in Cultural Anthropology**

### **B.A., Major in Cultural Anthropology Requirements: 36 Credits**

#### **Specific Requirements for Admission to the Cultural and Medical Anthropology Major**

Successful completion of ANT 101 Introduction to Native American Studies: Anthropological Approaches, ANT 111 Introduction to Anthropology: Human and Cultural Diversity, ANT 112 Introduction to Anthropology: Culture, Energy and Sustainability or ANT 113 Introduction to

Anthropology: Social and Cultural Determinants of Health with a grade of “C” or better and 3 credits in another Sociology or Anthropology course at a level of 200 or above with a grade of “C” or better.

ANT 301	Social and Cultural Theory	3
ANT 316	Qualitative Methods In The Social Sciences	3
ANT 499	Senior Capstone: Applying the Social Sciences	3
<b>Select one of the following:</b>		<b>3</b>
ANT 101	Introduction to Native American Studies: Anthropological Approaches	
ANT 111	Introduction to Anthropology: Human and Cultural Diversity	
ANT 112	Introduction to Anthropology: Culture, Energy and Sustainability	
ANT 113	Introduction to Anthropology: Social and Cultural Determinants of Health	
<b>Select six credits from the following:</b>		<b>6</b>
ANT 307	Demography: World Population Issues	
ANT 315	Healthcare, Society and Culture	
ANT 341	American Cultural Minorities	
ANT 342	Peoples and Cultures of Sub-Saharan Africa	
ANT 346	Peoples and Cultures of Latin America	
ANT 358	Critical Issues In The Study Of Native American Religions	
ANT 360	Gender, Society and Culture	
ANT 424	Sustainability and Rural America	
<b>Select eighteen credits from any ANT courses numbered above 300.</b>		<b>18</b>
Total Credits		<b>36</b>

Note: ANT 493 Directed Independent Readings, ANT 495 Directed Independent Study and ANT 497 Directed Independent Research 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 Quantitative Methods in the Social Sciences and ANT 314 Statistics for the Social Sciences.

## **B.A., Major in Justice and Society**

### **B.A., Major in Justice and Society**

See the description for this interdisciplinary major (p. 353), offered in conjunction with the Department of Sociology, Anthropology and Social Work.

## B.A., Major in Medical Anthropology

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

#### Specific Requirements for Admission to the Cultural and Medical Anthropology Major

Successful completion of ANT 101 Introduction to Native American Studies: Anthropological Approaches, ANT 111 Introduction to Anthropology: Human and Cultural Diversity, ANT 112 Introduction to Anthropology: Culture, Energy and Sustainability or ANT 113 Introduction to Anthropology: Social and Cultural Determinants of Health with a grade of "C" or better and 3 credits in another Sociology or Anthropology course at a level of 200 or above with a grade of "C" or better.

#### Select one of the following Introduction Courses: 3

ANT 101	Introduction to Native American Studies: Anthropological Approaches	3
ANT 111	Introduction to Anthropology: Human and Cultural Diversity	
ANT 112	Introduction to Anthropology: Culture, Energy and Sustainability	
ANT 113	Introduction to Anthropology: Social and Cultural Determinants of Health	

#### Core Courses

ANT 301	Social and Cultural Theory	3
ANT 312	Quantitative Methods in the Social Sciences	3
ANT 314	Statistics for the Social Sciences	4
ANT 315	Healthcare, Society and Culture	3
ANT 316	Qualitative Methods In The Social Sciences	3
ANT 363	Medical Anthropology	3
ANT 499	Senior Capstone: Applying the Social Sciences	3

#### Electives 12

Select 12 credits of ANT electives, 300-level or above.

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Total Credits 37

Students are encouraged to select as their Senior Perspective course one of the following:

ANT 424	Sustainability and Rural America
ANT 455	Food, Society, and Environment

Students planning to apply for admission to Creighton's MMA program are encouraged to include one or more of the following:

ANT 570	Introduction to Geographic Information Systems
ECO 513	Health Economics
THL 534	Introduction to Liberation Theology

Students planning to go to any other graduate school are encouraged to include one or more of the following:

ANT 385	Community Internship I, II
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ANT 497	Directed Independent Research
ANT 570	Introduction to Geographic Information Systems

## B.S., Major in Sociology: Applied Research Methods Track

### Specific Requirements for Admission to the Sociology Major

Completion of SOC 101 Introduction to Sociology: Self and Society or SOC 102 Introduction to Sociology: Social Problems 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: Applied Research Methods Track Requirements: 37 Credits

#### Sociology Major Required Courses

SOC 301	Social and Cultural Theory	3
SOC 312	Quantitative Methods in the Social Sciences	3
SOC 314	Statistics for the Social Sciences	4
SOC 411	Social Inequality and Stratification	3
SOC 499	Senior Capstone: Applying the Social Sciences	3
Select one of the following:		3
SOC 101	Introduction to Sociology: Self and Society	
SOC 102	Introduction to Sociology: Social Problems	

#### Applied Research Methods Track Courses

SOC 307	Demography: World Population Issues	3
SOC 497	Directed Independent Study	6
SOC 570	Introduction to Geographic Information Systems	4
Select five credits from the following:		5
SOC 309	The Urban Social System	
SOC 316	Qualitative Methods In The Social Sciences	
SOC 317	Global Health Issues	
SOC 318	Gender in American Society	
SOC 320	Sociology of Deviant Behavior	
SOC 321	Sociology of the Criminal Justice System	
SOC 335	Technology and Social Change	
SOC 341	American Cultural Minorities	
SOC 355	Environment and Society: Sociological Perspectives	
SOC 360	Gender, Society and Culture	
SOC 385	Community Internship I, II	
SOC 423	Law and Society	
SOC 424	Sustainability and Rural America	
SOC 455	Food, Society, and Environment	

SOC 493	Directed Independent Readings
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SOC 495	Directed Independent Study
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 Total Credits

37

## B.S., Major in Sociology: Criminal Justice Policy Track

### Specific Requirements for Admission to the Sociology Major

Completion of SOC 101 Introduction to Sociology: Self and Society or SOC 102 Introduction to Sociology: Social Problems 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: Criminal Justice Policy Track Requirements: 37 Credits

#### Sociology Major Required Courses

SOC 301	Social and Cultural Theory	3
SOC 312	Quantitative Methods in the Social Sciences	3
SOC 314	Statistics for the Social Sciences	4
SOC 411	Social Inequality and Stratification	3
SOC 499	Senior Capstone: Applying the Social Sciences	3
Select one of the following:		3
SOC 101	Introduction to Sociology: Self and Society	
SOC 102	Introduction to Sociology: Social Problems	

#### Criminal Justice Policy Track Courses

SOC 320	Sociology of Deviant Behavior	3
SOC 321	Sociology of the Criminal Justice System	3
SOC 341	American Cultural Minorities	3
SOC 423	Law and Society	3
Select six credits from the following:		6
SOC 307	Demography: World Population Issues	
SOC 309	The Urban Social System	
SOC 315	Healthcare, Society and Culture	
SOC 316	Qualitative Methods In The Social Sciences	
SOC 317	Global Health Issues	
SOC 318	Gender in American Society	
SOC 335	Technology and Social Change	
SOC 355	Environment and Society: Sociological Perspectives	
SOC 360	Gender, Society and Culture	
SOC 385	Community Internship I, II	
SOC 424	Sustainability and Rural America	
SOC 455	Food, Society, and Environment	

SOC 493	Directed Independent Readings
SOC 495	Directed Independent Study
SOC 497	Directed Independent Study
SOC 570	Introduction to Geographic Information Systems
PLS 320	Judicial Process
PLS 337	Constitutional Law

Total Credits

37

## B.S., Major in Sociology: Standard Sociology Track

### Specific Requirements for Admission to the Sociology Major

Completion of SOC 101 Introduction to Sociology: Self and Society or SOC 102 Introduction to Sociology: Social Problems 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: Standard Sociology Track Requirements: 37 Credits

#### Sociology Major Required Courses

SOC 301	Social and Cultural Theory	3
SOC 312	Quantitative Methods in the Social Sciences	3
SOC 314	Statistics for the Social Sciences	4
SOC 411	Social Inequality and Stratification	3
SOC 499	Senior Capstone: Applying the Social Sciences	3
Select one of the following:		3
SOC 101	Introduction to Sociology: Self and Society	
SOC 102	Introduction to Sociology: Social Problems	

#### Select eighteen credits from the following: 18

SOC 307	Demography: World Population Issues
SOC 309	The Urban Social System
SOC 315	Healthcare, Society and Culture
SOC 316	Qualitative Methods In The Social Sciences
SOC 317	Global Health Issues
SOC 318	Gender in American Society
SOC 320	Sociology of Deviant Behavior
SOC 321	Sociology of the Criminal Justice System
SOC 335	Technology and Social Change
SOC 341	American Cultural Minorities
SOC 355	Environment and Society: Sociological Perspectives
SOC 360	Gender, Society and Culture
SOC 385	Community Internship I, II

SOC 423	Law and Society
SOC 424	Sustainability and Rural America
SOC 455	Food, Society, and Environment
SOC 493	Directed Independent Readings
SOC 495	Directed Independent Study
SOC 497	Directed Independent Study
SOC 570	Introduction to Geographic Information Systems

Total Credits

37

## B.S.W. Major in Social Work

### Specific Requirements for Admission to the Social Work Major

Successful completion of SWK 261 Social Welfare Needs of Vulnerable Populations:Exploring Helping Role from Social Work Perspective, PSY 201 Introductory Psychology (formerly PSY 111), SOC 101 Introduction to Sociology: Self and Society; 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. The application process must be completed before students may register for SWK 345 Practice I - Social Work with Individuals and Families and above.

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

#### Course Requirements

SWK 261	Social Welfare Needs of Vulnerable Populations:Exploring Helping Role from Social Work Perspective	3
SWK 275	Human Behavior and the Social Environment	4
SWK 298	Economics, Policy and Social Welfare	3
SWK 345	Practice I - Social Work with Individuals and Families	3
SWK 346	Pre-Practicum	1
SWK 359	Practice II: Social Work with Groups	3
SWK 435	Practice III: Advocacy, Injustice, Oppression and Ethical Decision-making	3
SWK 460	Field Practicum Seminar I	2
SWK 461	Field Practicum I	4
SWK 480	Field Practicum Seminar II	2
SWK 481	Field Practicum II	4
Total Credits		32

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:

PSY 201	Introductory Psychology	3
SOC 101	Introduction to Sociology: Self and Society <sup>1</sup>	3

Select one of the following: <sup>1</sup>

7

PSY 313	Research Methods And Statistics I <sup>1</sup>
SOC 312 & SOC 314	Quantitative Methods in the Social Sciences and Statistics for the Social Sciences

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.

<sup>1</sup> Students may take PSY 313 Research Methods And Statistics I or SOC 312 Quantitative Methods in the Social Sciences/SOC 314 Statistics for the Social Sciences or another statistics course to meet the requirement.

## Anthropology Minor

The Anthropology minor introduces students to the traditional four-field approach to the study of culture. While the introduction course covers all four fields with a focus on cultural anthropology, students select courses from two of the other three theoretical fields (physical anthropology, archaeology, linguistics) and choose three electives to examine issues in anthropology such as the study of religion and/or specific cultures and/or a particular region of the world (i.e. Africa, Asia, Latin America, or Native America).

### Minor in Anthropology Requirements: 18 Credits

Select one of the following Introduction courses:

3

ANT 101	Introduction to Native American Studies: Anthropological Approaches
ANT 111	Introduction to Anthropology: Human and Cultural Diversity

Select one of the following:

3

ANT 316	Qualitative Methods In The Social Sciences
ANT 301	Social and Cultural Theory

Select twelve additional credits from any ANT courses numbered 200 or above.

12

ANT 493, ANT 495, and ANT 497 cannot be applied toward the minor.

Total Credits

18

## Applied Research Methods in Sociology and Anthropology Minor

The Applied Research Methods minor introduces students to the tools and methods used to conduct and interpret qualitative and quantitative research about society. Students will learn how to design and conduct applied social research projects, including demography, survey research, focus groups, spatial analysis, and other tools used by commercial firms, government agencies, and non-governmental organizations.

## Minor in Applied Research Methods in Sociology and Anthropology Requirements: 18 Credits

SOC 312	Quantitative Methods in the Social Sciences	3
SOC 314	Statistics for the Social Sciences	4
SOC 316	Qualitative Methods In The Social Sciences	3
SOC 497	Directed Independent Study	4
SOC 570	Introduction to Geographic Information Systems	4
Total Credits		18

## Criminal Justice Policy Minor

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.

## Minor in Criminal Justice Policy Requirements: 18 credits

SOC 320	Sociology of Deviant Behavior	3
SOC 321	Sociology of the Criminal Justice System	3
SOC 341	American Cultural Minorities	3
SOC 423	Law and Society	3
Select six credits from the following:		6
SOC 307	Demography: World Population Issues	
SOC 309	The Urban Social System	
SOC 312	Quantitative Methods in the Social Sciences	
SOC 314	Statistics for the Social Sciences	
SOC 316	Qualitative Methods In The Social Sciences	
SOC 317	Global Health Issues	
SOC 318	Gender in American Society	
SOC 335	Technology and Social Change	
SOC 355	Environment and Society: Sociological Perspectives	
SOC 360	Gender, Society and Culture	
SOC 385	Community Internship I, II	
SOC 424	Sustainability and Rural America	
SOC 455	Food, Society, and Environment	
SOC 493	Directed Independent Readings	
SOC 495	Directed Independent Study	
SOC 497	Directed Independent Study	
SOC 570	Introduction to Geographic Information Systems	

PLS 320	Judicial Process	
PLS 337	Constitutional Law	
Total Credits		18

## Medical Anthropology Minor

The Anthropology minor introduces students to the traditional four-field approach to the study of culture. While the introduction course covers all four fields with a focus on cultural anthropology, students select courses from two of the other three theoretical fields (physical anthropology, archaeology, linguistics) and choose three electives to examine issues in anthropology such as the study of religion and/or specific cultures and/or a particular region of the world (i.e. Africa, Asia, Latin America, or Native America).

### Minor in Medical Anthropology Requirements: 18 Credits <sup>1</sup>

Select one of the following Introduction courses:		3
ANT 101	Introduction to Native American Studies: Anthropological Approaches	
ANT 111	Introduction to Anthropology: Human and Cultural Diversity	
ANT 112	Introduction to Anthropology: Culture, Energy and Sustainability	
ANT 113	Introduction to Anthropology: Social and Cultural Determinants of Health	
ANT 363	Medical Anthropology	3
ANT 315	Healthcare, Society and Culture	3
Select one of the following:		3
ANT 312	Quantitative Methods in the Social Sciences	
ANT 316	Qualitative Methods In The Social Sciences	
Electives		6
Students may select any anthropology course.		
Total Credits		18

<sup>1</sup> Nursing students take: ANT 363 Medical Anthropology, ANT 111 Introduction to Anthropology: Human and Cultural Diversity, ANT 316 Qualitative Methods In The Social Sciences, ANT 314 Statistics for the Social Sciences; NUR 353 Principles of Population-Based Health Care, NUR 354 Power, Politics, And Policy In Health Care.

Students planning to apply for admission to Creighton’s MMA program are encouraged to include one or more of the following:

ANT 570	Introduction to Geographic Information Systems
ECO 513	Health Economics
THL 534	Introduction to Liberation Theology

## Sociology Minor

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.

## Minor in Sociology Requirements: 18 Credits

Select one of the following:	3
SOC 101                      Introduction to Sociology: Self and Society	
SOC 102                      Introduction to Sociology: Social Problems	
Select fifteen credits from any SOC courses numbered above 300.	15
<b>Total Credits</b>	<b>18</b>

NOTE: SOC 385 Community Internship I, II, SOC 493 Directed Independent Readings, SOC 495 Directed Independent Study, and SOC 497 Directed Independent Study cannot be applied toward this minor.

## Theology

Chair: Julia A. Fleming

Department Office: Humanities Building, Room 121

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.

## Major in Theology

### Specific Requirements for Admission to the Theology Major

Sophomore standing and "C" average in two or more completed theology courses.

- B.A., Major in Theology (p. 500)
- B.A./M.A. Theology/Religious Education Teaching Certification (p. 504)

## Minors in Theology

- Theology (p. 505)
- Applied Ethics (p. 504)

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.

## Associate Degree in the College of Professional Studies

This department offers the following associate degree to students in the College of Professional Studies:

- Theology (p. 586)

## Certificate Programs in the College of Professional Studies

Certificates may be available through this department to students in the College of Professional Studies.

### Courses

#### **THL 110. The Christian Tradition, Then and Now. 3 credits.**

This course provides a basic introduction to the history, teachings, and practices of Christianity, and to theology as an academic discipline. Consideration of the origins and evolution of Christianity will prepare students to interpret the intellectual and the practical challenges it faces in a rapidly changing world.

#### **THL 111. The Christian Tradition:Portraits of Christians Through the Centuries. 3 credits.**

This survey of the Christian tradition focuses on the major personalities in the history of Christianity (e.g. Athanasius, Augustine, Aquinas, Luther) using a case-study method. Each class examines one pivotal figure whose life and work has helped shape the history and development of Christianity.

#### **THL 112. The Christian Tradition:Global Visions. 3 credits.**

This course will introduce students to the basic teachings, history and practices of Christianity and its global inculturation. Course topics will consider the local expression of Christianity in North America, Latin America, Asia and/or Africa.

#### **THL 113. The Christian Tradition in Dialogue. 3 credits.**

From the beginning, Christianity has been in dialogue with a variety of cultures and religious viewpoints. This course studies the Christian tradition in dialogue with Judaism, the Greco-Roman world, the challenge of Islam, the struggles between eastern and western Christianities, Reformation Christianities, American Protestantism and contemporary theological concerns.

#### **THL 175. The Human Induced Climate Crisis:Origins and Solutions. 3 credits.**

This course will analyze the cultural forces that allowed social, religious, and political discourse to diverge so widely from scientific discourse concerning the climate crisis. It will also reflect upon what kind of social, religious, psychological, and political transformation is necessary to avoid the worst effects of climate change. CO: COM 101.

#### **THL 201. Reading the Old Testament. 3 credits. FA, SP**

Survey of the literature, history, and religion of the Old Testament. P: One course of THL 110-125; So. stdg.

#### **THL 202. Creation and the Environment in the Bible. 3 credits. FA, SP**

The comparative examination of biblical creation myths and their appropriation in historical, cultic, and prophetic settings P: One course of THL 110-125; So. stdg.

#### **THL 203. Biblical Ancestors and Heroes. 3 credits. FA, SP**

Examination of the story of ancient Israel through the lens of its major figures. Emphasis on their role as literary and social figures. P: One course of THL 110-125; So. stdg.

**THL 205. *Sickness, Disability, and Healing in the Bible.* 3 credits. FA, SP**

Introduction to critical interpretation of the Bible through a focus on select texts of the Hebrew Bible/Old Testament and the New Testament; exploration, in cultural context, of the experience and understanding of sickness, disability, and healing in ancient Israel and early Christian communities; attention to the theological problem of sickness and disability and to the role of healing and exorcism in the diverse christologies of the Gospels. P: One course of THL 110-125; So. stdg.; P or CO: CHM 321 (waived for College of Nursing students).

**THL 207. *Reading the New Testament.* 3 credits. FA, SP**

A survey of selected writings from the early Christian communities, understood in their cultural and literary contexts. P: One course of THL 110-125; So. stdg.

**THL 208. *New Testament Communities and Their Stories.* 3 credits. FA, SP**

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: One course of THL 110-125; So. stdg.

**THL 209. *The Synoptic Gospels: The Life of Jesus.* 3 credits. FA, SP**

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: One course of THL 110-125; So. stdg.

**THL 210. *Applying the Memory of Jesus: The Community of John.* 3 credits. FA, SP**

Study of the unique witness to the meaning of Jesus in the Johannine writings. P: One course of THL 110-125; So. stdg.

**THL 212. *Paul and His Legacy.* 3 credits. FA, SP**

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: One course of THL 110-125; So. stdg.

**THL 250. *Theological Foundations for Ethical Understanding.* 3 credits. FA, SU**

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: One course of THL 110-125; So. stdg.

**THL 324. *Scripture and Theology: The Birth of Christian Doctrine.* 3 credits.**

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: One course of THL 110-125 and a 200-level Scripture course; Jr. stdg.

**THL 325. *Catholicism: Creed and Question.* 3 credits. SP**

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 credits. FA**

How the Christian church has defended its core doctrines and beliefs against critics both ancient and modern. P: One course of THL 110-125; a 200-level Scripture course; Jr. stdg.

**THL 327. *Christianity and the Holocaust.* 3 credits. FA**

Christianity has been grappling for 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 credits.**

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 credits.**

The powerful and almost irresistible aspiration that people have for liberation constitutes one of the principle 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 credits. FA, SP**

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, Catholic Social Teaching, and the Problem of Climate Change. 3 credits.**

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: One course of THL 110-125.

**THL 338. Eucharist: Liturgical Theology and Practice. 3 credits. FA, SP**

Study of the Eucharist from an ecumenical perspective. The course is intended for Catholic and Protestant, mainline and evangelical Christians seeking a critical, historical, and theological understanding of their eucharistic heritage. P: 200-level Scripture course; Jr. stdg.

**THL 339. Theology of the Church and Sacraments. 3 credits. FA, SP**

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. 3 credits. (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). This course is repeatable if in a different location.

**THL 344. Theology of Christian Marriage. 3 credits. SP**

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 Archaeology. 3 credits. 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 credits. 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 credits. 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 credits. (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 credits. 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 credits. OD**

Development of Jewish faith, philosophy, institutions, and peoplehood. P: 200-level Scripture course; Jr. stdg.

**THL 356. Christianity in Africa. 3 credits. 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 credits. FA**

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 credits. 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 credits. FA, SP**

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 credits. FA (Same as EDP 361, JPS 361)**

A multi-disciplinary study of the history, sociology, politics, economics and religion of the Dominican Republic and the Carribean. 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 credit. FA (Same as JPS 365)**

A series of three one-credit-hour mini-seminars over three consecutive semester. Each seminar will examine a theory of faith or moral development and a biography of a social justice activist such as Dorothy Day or Martin Luther King, Jr. May be repeated for a maximum of 5 credits. P: THL/PHL 250 and Jr. stdg.

**THL 368. Christology Seminar for Majors. 3 credits.**

This course proposes an intensive seminar-based study of the significance of the person and work of Jesus Christ as presented in the New Testament and Church Councils, and interpreted in writings of the Fathers of the Church and of theologians. It will progress along a four-part development. The first two parts include the biblical foundations for Christology followed by the Christological controversies of the early Church. Third and fourth are the specifically medieval contributions to Christology and the contemporary challenges for appropriating traditional Christology.

**THL 390. History of the Christian Church. 3 credits. SP**

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 credits. OD**

Offered only in the Certificate programs in Ministry and Spirituality. Experiential study chosen in consultation with adviser.

**THL 415. Stories that Shape Lives. 3 credits. 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 credits. 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 credits. (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 credits. 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 credits. 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 449. Teaching Of Religion. 3 credits.**

This course deals with the objectives and functions of the teaching of religion 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. P: or CO:Jr. Stdg.

**THL 457. Biomedical Ethics: Philosophical and Theological Approaches. 3 credits. 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 credits. (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 credits. 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 credits. OD (Same as SRP 468, PLS 468)**

This seminar challenges students to consider the link between religion and politics. Stating 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. Comparisons with other cultures and contexts, to include the American experience, are used throughout the course. P: Sr. stdg.

**THL 469. Psychological and Theological Approaches to Vocation. 3 credits. (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 credits. OD**

Topical seminar with topics changing in different semesters. Course may be repeated with a different topic. P: 200-level Scripture course; Jr. stdg.

**THL 479. Communication and Theology. 3 credits. (Same as COM 479, THL 479)**

This course explores communication from a Christian perspective. Christian values such as charity, justice, freedom, human dignity, reconciliation, and peace as developed in Sacred Scripture, Church documents, and by great Christian thinkers are applied critically to issues and cases from three areas of communication studies: Interpersonal Communication, Organizational Communication, and Mass Communication. P: PHL or THL 250 and sr. stdg.

**THL 488. Personal and Spiritual Dimensions of Leadership. 3 credits. (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 492. Senior Seminar. 3 credits. FA**

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 and co-majors only.

**THL 493. Directed Independent Readings. 1-4 credits. OD**

May be repeated to a limit of six hours. P: DC.

**THL 495. Directed Independent Study. 1-4 credits. OD**

May be repeated to a limit of six hours. P: DC.

**THL 498. Pastoral Synthesis. 3 credits. OD**

Integrating project synthesizing a personal pastoral experience under faculty direction.

**THL 501. The Pentateuch. 3 credits. 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.

**THL 502. Old Testament Themes. 3 credits. 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.

**THL 503. The Prophetic Literature Of The Old Testament. 3 credits. OD**

The uniqueness of the prophetic movement. Background literary styles, relevance of the prophetic message.

**THL 504. The Wisdom Literature Of The Old Testament. 3 credits. OD**

Study of the patterns of Proverbs, Job, Ecclesiastes, some of the Psalms, compared with the wisdom literature of other ancient peoples.

**THL 505. History of Biblical Interpretation. 3 credits.**

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. The Gospel of Matthew. 3 credits. 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.

**THL 508. The Gospel of Mark. 3 credits. OD**

A study of the first written gospel, its outline and structure, authorship, sources and influence on later New Testament writings.

**THL 509. The Gospel Of Luke And The Acts Of The Apostles. 3 credits. OD**

Study of Luke-Acts as a two-volume whole - a work of history, theology, and literary artistry.

**THL 511. The Gospel of John. 3 credits. OD**

Study of the unique witness to the meaning of Jesus in the Johannine Gospel.

**THL 514. The Pastoral Epistles. 3 credits. OD**

The first attempts to weld Christianity and Western humanism as initiated in the Epistles to Timothy and Titus.

**THL 516. The Book Of Revelations (The Apocalypse). 3 credits. OD**

A contemporary scholarly interpretation of the book of Revelation with reference to contemporary apocalyptic.

**THL 517. The Parables of Jesus. 3 credits. OD**

Stories that formed the core of Jesus' preaching. How he told them. How the evangelists retold them. How we understand them today.

**THL 518. Women and the Bible. 1-3 credits. OD (Same as WGS 518)**

Study of the representations of women in biblical narratives; attention to the construction of gender in the ancient world. Introduction to the various approaches contemporary women are taking to these biblical texts.

**THL 520. The Dead Sea Scrolls. 3 credits. 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.

**THL 523. Israelite Religions. 3 credits. (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 credits. 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.

**THL 525. Archaeological Fieldwork And Analysis. 3 credits. SU (Same as ANT525, 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.) CO: THL 526.

**THL 526. Archaeology Of Roman Palestine. 3 credits. SU (Same as ANT 526, CNE 526)**

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 Israelites 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 credits. SU**

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, Judaeen 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 credits. (Same as CNE 529)**

Various ancient translations of the Bible and their significance.

**THL 530. Contemporary Catholic Theologians. 3 credits. OD**

Key themes in the thought of Rahner, Conger, De Lubac, Lonergan, and other contemporary Catholic theologians.

**THL 531. Studies in Early Christianity. 3 credits. FA, 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 the following themes: the development of the doctrine of the Trinity, the emergence of Classical Christology, early Christian exegesis, the thought of St. Augustine.

**THL 533. Ecclesiology: Contemporary Church Questions. 3 credits.**

Basic contemporary questions about the life of the church will be explored in the context of the Creed and traditional dogmatic theology. Particular emphasis on the church's transition into the third millennium.

**THL 534. Introduction to Liberation Theology. 3 credits. 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.

**THL 535. Doctrinal Development: Christology. 3 credits. OD**

Development of the Christian community's understanding and teaching about the person and work of Jesus Christ.

**THL 536. The Mystery of God and the Suffering of Human Beings. 3 credits.**

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 credits. OD**

Development of the Christian community's understanding and teaching about the mysteries of grace and sin.

**THL 538. Seminar in Christian Anthropology. 3 credits. OD**

Study of Christian theological anthropology in eastern and western traditions.

**THL 539. Seminar in Christian Eschatology. 3 credits.**

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 credits. 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.

**THL 541. God is Green. 3 credits.**

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 credits. 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.

**THL 545. Liturgy and Christian Life. 3 credits. OD**

The historical development of Western Liturgy and its technical interpretation through the centuries. Emphasis on the saving presence of Christ and on the role of liturgy in the rest of Christian life.

**THL 552. Studies in Medieval Christianity. 3 credits. SP**

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: One course from THL 110-125 and 200-level Scripture course and Jr. stdg.

**THL 553. Reformation Theology. 3 credits.**

This course examines the history and theological controversies of the Reformation. Students will be introduced to: the various reform efforts of the late medieval Church; the influence of Christian Humanism; the writings of significant Protestant theologians; and the response of the Roman Catholic Church to these reform efforts. P: One course from THL 110-125.

**THL 555. Major Christian Theologian. 3 credits. SP**

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 is taken under a different topic to a maximum of 6 credits. P: One course from THL 110-125 and a 200-level scripture course and Jr. stdg.

**THL 556. Christianity and Modern Humanism. 3 credits.**

Comparative study of classical Christian accounts of the human condition and various modern, post-theological accounts. P: One course from THL 110-125, and THL 250 or PHL 250.

**THL 560. Theology of Ministry. 3 credits. 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.

**THL 561. Finding God In Daily Life: Prayer And Discernment. 3 credits. 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: One course from THL 110-125 and a 200-level Scripture course and Jr. stdg.

**THL 563. Contemporary Moral Problems. 3 credits. OD**

A comprehensive study of one or more moral issues facing contemporary society.

**THL 564. Christian Sexual Ethics. 3 credits. 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.

**THL 565. Catholic Social Teaching. 3 credits. 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.

**THL 566. Catholic Social and Sexual Ethics. 3 credits.**

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 credits. 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.

**THL 572. Ethics and Spirituality. 3 credits. 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.

**THL 573. Religion and Politics. 3 credits. 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: One course from THL 110-125 and a 200-level Scripture course and Jr. stdg.

**THL 574. Faith and Food. 3 credits. 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.

**THL 575. Foundations of Christian Spirituality. 3 credits. AY, FA, SP**

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.

**THL 576. Introduction to Jesuit Spirituality. 3 credits. 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 Society of Jesus, chief documents from the 32nd Congregation of the Society of Jesus, discernment, and the vow of obedience.

**THL 577. Special Questions in Jesuitica. 1-4 credits.**

Systematic and/or historical investigation of topics relating to the Society of Jesus. Content and number of credits to be specified when the course is offered. (This course offered only at the Jesuit College, St. Paul, Minn.)

**THL 579. Special Methods of Teaching Religion in the Secondary Schools. 3 credits. (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 or CO: EDU 341 and EDU 342 or EDU 551 and EDU 552.

**THL 585. Foundational Principles And Leadership Skills For Youth Ministry. 4 credits. 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 credits. 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 credits. AY, FA (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 credits. 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 589. The Rwanda Genocide as a Challenge for the Church. 3 credits.**

Exploration of the 1994 Rwanda Genocide in historical, theological, and political contexts with particular focus on roles played by majority Catholic Church. P: One course of THL 110-125.

**THL 592. Practicum in Ministry. 3-6 credits.**

Supervised experience and development of skills in appropriate ministry under faculty direction.

**THL 594. Special Seminar in Biblical Studies. 3 credits.**

May be repeated to a limit of six hours.

**THL 596. Special Seminar in Historical-Doctrinal-Liturgical Studies. 3 credits.**

May be repeated to a limit of six hours. P: DC.

**THL 598. Special Seminar in Christian Life Studies. 3 credits.**

May be repeated to a limit of six hours. P: DC.

## B.A. Major in Theology

### B. A. Major in Theology Requirements: 36-42 Credits

**Course Requirements**

One Christian Tradition Course (THL 110-125)		3
THL 250	Theological Foundations for Ethical Understanding	3
THL 390	History of the Christian Church	3
THL 492	Senior Seminar	3
Select one of the following:		3
THL 331	Jesus Christ: Liberator	
THL 335	Jesus Christ: Yesterday and Today	
Select three credits from each of the following five areas:		15

**Old Testament Scripture**

THL 201	Reading the Old Testament	
THL 202	Creation and the Environment in the Bible	
THL 203	Biblical Ancestors and Heroes	

**New Testament Scripture**

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: The Community of John	
THL 212	Paul and His Legacy	

**Biblical Studies**

THL 501	The Pentateuch	
THL 502	Old Testament Themes	
THL 503	The Prophetic Literature Of The Old Testament	
THL 504	The Wisdom Literature Of The Old Testament	
THL 505	History of Biblical Interpretation	
THL 507	The Gospel of Matthew	
THL 508	The Gospel of Mark	
THL 509	The Gospel Of Luke And The Acts Of The Apostles	
THL 511	The Gospel of John	
THL 514	The Pastoral Epistles	

THL 516	The Book Of Revelations (The Apocalypse)
THL 517	The Parables of Jesus
THL 518	Women and the Bible
THL 520	The Dead Sea Scrolls
THL 523	Israelite Religions
THL 524	History of Ancient Israel
THL 525	Archaeological Fieldwork And Analysis
THL 526	Archaeology Of Roman Palestine
THL 527	Study Tour of Biblical Israel
THL 529	Translations of the Bible
THL 594	Special Seminar in Biblical Studies

### **Doctrinal, Historical or Liturgical Theology**

THL 530	Contemporary Catholic Theologians
THL 531	Studies in Early Christianity
THL 533	Ecclesiology: Contemporary Church Questions
THL 534	Introduction to Liberation Theology
THL 535	Doctrinal Development: Christology
THL 536	The Mystery of God and the Suffering of Human Beings
THL 537	Doctrinal Development: Sin And Grace
THL 538	Seminar in Christian Anthropology
THL 539	Seminar in Christian Eschatology
THL 540	Ecclesiology: The Documents of Vatican II
THL 541	God is Green
THL 544	Christian Celebration: The Liturgical Year
THL 545	Liturgy and Christian Life
THL 552	Studies in Medieval Christianity
THL 553	Reformation Theology
THL 555	Major Christian Theologian
THL 556	Christianity and Modern Humanism
THL 589	The Rwanda Genocide as a Challenge for the Church
THL 596	Special Seminar in Historical-Doctrinal-Liturgical Studies

### **Christian Life Studies**

THL 416	For the Greater Glory: The Jesuits, their History and Spirituality
THL 457	Biomedical Ethics: Philosophical and Theological Approaches
THL 458	Theology and the Vocation to Health Care
THL 541	God is Green
THL 560	Theology of Ministry
THL 561	Finding God In Daily Life: Prayer And Discernment
THL 563	Contemporary Moral Problems
THL 564	Christian Sexual Ethics
THL 565	Catholic Social Teaching

THL 566	Catholic Social and Sexual Ethics	
THL 568	Women In The Christian Tradition	
THL 572	Ethics and Spirituality	
THL 573	Religion and Politics	
THL 574	Faith and Food	
THL 575	Foundations of Christian Spirituality	
THL 576	Introduction to Jesuit Spirituality	
THL 579	Special Methods of Teaching Religion in the Secondary Schools	
THL 587	Methods Of Teaching Religion In Elementary School	
THL 588	Christian Ethics of War and Peace	
THL 589	The Rwanda Genocide as a Challenge for the Church	
THL 598	Special Seminar in Christian Life Studies	
Select six additional THL credits from 300-599.		6
Total Credits		36

## Specialization in Biblical Studies

In addition to the Theology Major requirements students may specialize in Biblical Studies by choosing six credits from the following: 6

THL 501	The Pentateuch	
THL 502	Old Testament Themes	
THL 503	The Prophetic Literature Of The Old Testament	
THL 504	The Wisdom Literature Of The Old Testament	
THL 505	History of Biblical Interpretation	
THL 507	The Gospel of Matthew	
THL 508	The Gospel of Mark	
THL 509	The Gospel Of Luke And The Acts Of The Apostles	
THL 511	The Gospel of John	
THL 514	The Pastoral Epistles	
THL 516	The Book Of Revelations (The Apocalypse)	
THL 517	The Parables of Jesus	
THL 518	Women and the Bible	
THL 520	The Dead Sea Scrolls	
THL 523	Israelite Religions	
THL 524	History of Ancient Israel	
THL 525	Archaeological Fieldwork And Analysis	
THL 526	Archaeology Of Roman Palestine	
THL 527	Study Tour of Biblical Israel	
THL 529	Translations of the Bible	
THL 594	Special Seminar in Biblical Studies	
Total Credits		6

## 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: 6

THL 530	Contemporary Catholic Theologians
THL 531	Studies in Early Christianity
THL 533	Ecclesiology: Contemporary Church Questions
THL 534	Introduction to Liberation Theology
THL 535	Doctrinal Development: Christology
THL 536	The Mystery of God and the Suffering of Human Beings
THL 537	Doctrinal Development: Sin And Grace
THL 538	Seminar in Christian Anthropology
THL 539	Seminar in Christian Eschatology
THL 540	Ecclesiology: The Documents of Vatican II
THL 541	God is Green
THL 544	Christian Celebration: The Liturgical Year
THL 545	Liturgy and Christian Life
THL 552	Studies in Medieval Christianity
THL 553	Reformation Theology
THL 555	Major Christian Theologian
THL 556	Christianity and Modern Humanism
THL 589	The Rwanda Genocide as a Challenge for the Church
THL 596	Special Seminar in Historical-Doctrinal-Liturgical Studies

Total Credits

6

## 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: 6

THL 416	For the Greater Glory: The Jesuits, their History and Spirituality
THL 457	Biomedical Ethics: Philosophical and Theological Approaches
THL 458	Theology and the Vocation to Health Care
THL 541	God is Green
THL 560	Theology of Ministry
THL 561	Finding God In Daily Life: Prayer And Discernment
THL 563	Contemporary Moral Problems
THL 564	Christian Sexual Ethics
THL 565	Catholic Social Teaching
THL 566	Catholic Social and Sexual Ethics
THL 568	Women In The Christian Tradition
THL 572	Ethics and Spirituality
THL 573	Religion and Politics
THL 574	Faith and Food

THL 575	Foundations of Christian Spirituality
THL 576	Introduction to Jesuit Spirituality
THL 579	Special Methods of Teaching Religion in the Secondary Schools
THL 587	Methods Of Teaching Religion In Elementary School
THL 588	Christian Ethics of War and Peace
THL 589	The Rwanda Genocide as a Challenge for the Church
THL 598	Special Seminar in Christian Life Studies

Total Credits

6

## **B.A./M.A. Theology/Religious Education Teaching Certification**

### **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.

### **Applied Ethics Minor**

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

### **Minor in Applied Ethics Requirements: 18 Credits**

#### **Foundational Ethics**

PHL 250	Philosophical Foundations For Ethical Understanding	3
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#### **Theological Ethics**

Select two of the following:		6
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THL 534	Introduction to Liberation Theology
THL 541	God is Green
THL 563	Contemporary Moral Problems
THL 564	Christian Sexual Ethics
THL 565	Catholic Social Teaching
THL 589	The Rwanda Genocide as a Challenge for the Church

#### **Philosophical Ethics**

Select two of the following:		6
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PHL 331	Moral Philosophy	
PHL 343	Ethics and the Professions	
PHL 348	Philosophy of Feminism	
PHL 354	Environmental Ethics	
PHL 359	History of Ethics	
PHL 368	Moral Psychology	
PHL 453	Ethics and Public Policy	
PHL 455	Health Care, Society, And Values	
Select one additional course from the lists above or from the following:		3
JPS 588	Christian Ethics Of War And Peace	
SRP 457	Biomedical Ethics: Philosophical and Theological Approaches	
SRP 409	Race and Gender Relations: Moral and Ethical Dilemmas	
THL 250	Theological Foundations for Ethical Understanding	
Total Credits		18

## Theology Minor

The theology minor introduces students to foundational and advanced courses in theology. The minor familiarizes students with the basic principles and methods of theology, and, depending upon their particular interests, enables them to apply those principles and methods to specific topics or areas of study in historical or contemporary theology.

### Minor in Theology Requirements: 18 Credits

#### Foundations

Select six credits from the following:		6
One Christian Tradition Course (THL 110-125)		
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: The Community of John	
THL 212	Paul and His Legacy	
THL 250	Theological Foundations for Ethical Understanding	
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 338	Eucharist: Liturgical Theology and Practice	
THL 339	Theology of the Church and Sacraments	
THL 343	Ecclesiology in Global Context	
THL 344	Theology of Christian Marriage	

**Development**

Select three credits from Theology courses numbered from 201 to 344 AND six credits from Theology courses numbered from 349 to 599 OR nine credits from Theology courses numbered from 349 to 599. 9

**Capstone**

Select three credits from Theology courses numbered from 500 to 599. 3

Total Credits 18

## Women's and Gender Studies

Program Director: Susan Calef

Program Office: Dowling Hall-Humanities Center, Room 125

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.

### Minor in Women's and Gender Studies

- Women's and Gender Studies (p. 509)

### Courses

**WGS 200. Introduction to Women's and Gender Studies. 3 credits.**

Introduce students to the theoretical frameworks of feminist theory, contemporary theory on gender differences, and theories of oppression and privilege, particularly with respect to ethnicity, race, class, and sexual orientation.

**WGS 300. Introduction to Women's and Gender Studies. 3 credits. 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. Gender and Sexuality in Ancient Greece and Hellenistic Egypt. 3 credits. 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. Gender and Sexuality in Ancient Rome and Roman Egypt. 3 credits. 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 credits. FA (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 credits. OD (Same as PLS 329)**

Examination of issues of gender and politics from political theory, political behavior, and public policy perspectives. Issues include place of gender in liberal political theory and political theory alternatives; history of the women's movement; gender patterns in political behavior, gender consequences of various public policies in the United States; and debate and analysis of policy changes to address these issues in public policies. P: So. stdg.

**WGS 348. Philosophy of Feminism. 3 credits. 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 credits. SP (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 390. Biography as History. 3 credits.**

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.

**WGS 409. Race and Gender Relations: Moral and Ethical Dilemmas. 3 credits. SU (Same as ANT409, SRP 409, 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 credits. OD (Same as ENG 410)**

Literary works by and about women. P. Jr. stdg.

**WGS 435. Women, Art and Society. 3 credits. (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 credits. FA (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 credits. 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 credits. 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 Asia. 3 credits. SP (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 credits. 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 credits. (Same as Com 477, HAP 477, SRP 477)**

P: Sr. stdg. and PHL 250/THL 250.

**WGS 479. The Philosophy of Love and Sex. 3 credits.**

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 486. Women and Gender in Africa. 3 credits.**

A study of the roles and representations of women and gender as conceptual and analytical categories in African history and society. P: So. Stdg.

**WGS 495. Directed Independent Study. 1-3 credits. OD**

May be repeated to a limit of six hours. P: DC.

**WGS 518. Women and the Bible. 1-3 credits. 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 credits. 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 feinine" (feminin 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 credits. 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.

## Women's and Gender Studies Minor

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.

### Minor in Women's and Gender Studies Requirements: 18 Credits

WGS 300	Introduction to Women's and Gender Studies	3
Select fifteen credits from the following:		15
ARH 435	Women, Art and Society	
ENG 312	Mass Media and Modern Culture	
HIS 390	Biography as History	
IDC 491	Women in Science	
PSY 374	Human Sexuality	
PSY 428	Multicultural Issues in Psychology	
SOC 341	American Cultural Minorities	
SRP 437	The Environment and Race, Class, and Gender	
WGS 316	Gender and Sexuality in Ancient Greece and Hellenistic Egypt	
WGS 317	Gender and Sexuality in Ancient Rome and Roman Egypt	
WGS 318	Gender in American Society	
WGS 329	Gender and Politics	
WGS 348	Philosophy of Feminism	
WGS 360	Gender, Society and Culture	
WGS 409	Race and Gender Relations: Moral and Ethical Dilemmas	
WGS 410	Women in Literature	
WGS 440	Gender Communication	
WGS 460	The History Of Women In The United States	

WGS 473	The Psychology of Gender
WGS 477	Gendered Health Across the Lifespan
WGS 479	The Philosophy of Love and Sex
WGS 495	Directed Independent Study
WGS 518	Women and the Bible
WGS 551	Women Writers In French And Francophone Literature
WGS 568	Women in the Christian Tradition

Total Credits

18

## Other Academic Programs

In addition to the majors, minors, and certificates described in the College of Arts and Sciences departments, the following programs are also available to Arts and Sciences students:

- Arts & Sciences-Engineering Program (p. 510)
- Combined Arts & Sciences-Law (3-3) Program (p. 512)
- Certificate in Business Administration for Arts & Sciences Students (p. 529)

## 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, 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

Fall		Credits
PHY 211	General Physics I	4
MTH 245	Calculus I	4
ENG 150	Contemporary Composition:College Composition	3
HIS 101	The Modern Western World	3
THL 100-125: 1 Course		
RSP 101	An Introduction to the Culture of Collegiate Life	1
<b>Term Credits</b>		<b>15</b>
Spring		
PHY 212	General Physics II	4

MTH 246	Calculus II	4
ENG 120	World Literature I	3
PHL 107	Critical And Historical Introduction To Philosophy	3
COM 152 or ENG 251	Civic Engagement through Public Communication or Advanced Composition	3
	<b>Term Credits</b>	<b>17</b>
<b>Second Year</b>		
<b>Fall</b>		
PHY 301	Modern Physics <sup>1</sup>	3
CHM 203 & CHM 204	General Chemistry I and General Chemistry I Laboratory	4
MTH 347	Calculus III	3
Scripture (200-Level THL)		3
MTH 545	Differential Equations	3
PHY 302 or PHY 303	Modern Physics Laboratory <sup>1</sup> or Electronics Laboratory	1
	<b>Term Credits</b>	<b>17</b>
<b>Spring</b>		
Social Science		3
CHM 205 & CHM 206	General Chemistry II and General Chemistry II Laboratory	4
PHL 250	Philosophical Foundations For Ethical Understanding	3
CSC 221	Introduction to Programming	3
PHY 522 or MTH 529	Electric Circuits or Linear Algebra	3
PHY 591	Seminar in Engineering	1-3
	<b>Term Credits</b>	<b>17-19</b>
<hr/>		
	Total Credits:	66-68

<sup>1</sup> PHY 301 Modern Physics and PHY 302 Modern Physics Laboratory 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 Heider College of Business, 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 Heider College of Business 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.<sup>1</sup> In addition, students must achieve a cumulative GPA of 2.00. Arts and Sciences students are limited to no more than 31 credits of Heider College of Business courses.

### Required Courses

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
Total Credits		31

<sup>1</sup> Upon matriculation, a maximum of six credits may be taken as transient study in which the student applies will be guaranteed an interview.

## Combined Arts & Sciences-Law (3-3) Program

Students in Combined Arts & Sciences-Law (3-3) Program earn both an undergraduate degree and a law degree in six years instead of the normal seven, subject to the following requirements:

Students pursuing the B.A./J.D. or the B.S./J.D. will be considered candidates for the B.A. or B.S. degree following the successful completion of the first year in the Creighton University School of Law; i.e., the fourth year of the combined program. Such candidates for the B.A. or B.S. must file an application for degree with the Registrar's Office by February 15 of the fourth year for the degree to be conferred in May.

Students must complete 32 credit hours, with at least a "C" average, in the first full year of the Creighton University School of Law, and students must have completed at least 48 undergraduate hours at Creighton University.

3-3 Programs are available in the following CCAS departments: Classics, Communication Studies, English, History, Modern Languages, Philosophy, Political Science, Psychology, and Theology. Consult departmental websites for sample programs of study.

# Heider College of Business

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## Accreditation

The undergraduate program of the Heider College of Business 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 Heider College of Business 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.

## Majors

Students in the Heider College of Business 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.

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:

1. to provide a broad cultural background, and
2. 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 (p. 522)
- Business Intelligence and Analytics (p. 529)
- Economics (p. 535)
- Finance (p. 534)
- Management (p. 544)
- Marketing (p. 544)
- International Business (p. 534)

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 Catalog. 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 Heider College of Business, in conjunction with the School of Law, offers a combined Business Administration-Law program (p. 557)—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.

## **Majors outside of the Heider College of Business for B.S.B.A. Students**

Departments in the College of Arts and Sciences (p. 124) may, at their discretion, allow a B.S.B.A. student to complete a second 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 or major 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.

## 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.

### Minors for B.S.B.A. Students

Business Administration students may only declare an Economics minor in the Heider College of Business, but may choose a minor in a department outside of the Heider College of Business, given appropriate approval and advising.

### Minors for non-B.S.B.A. Students

Students from the other undergraduate Colleges may pursue any of the following Heider College of Business minors, given appropriate advising and approval.

- Applied Information Technology (p. 534)
- Business Administration (p. 528)
- Economics (p. 544)
- Social Entrepreneurship (p. 557)
- Bioscience Entrepreneurship (p. 556)

## Certificate in the Heider College of Business

- Business Administration (p. 529)

## B.S.B.A. Degree Requirements and Curriculum

The University will confer the degree of Bachelor of Science in Business Administration (B.S.B.A.) on students who successfully complete all of the following prescribed 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 BUS 471 Strategic Management with a grade of "C" or better.

## B.S.B.A. Requirements Summary ( see *details below this summary chart*):

Categories	Semester Hours
Magis Common Core Curriculum	
Magis Common Core - Foundations	16 hrs

Magis Common Core - Explorations	17-19 hrs
Magis Common Core - Integrations	3 hrs
Magis Common Core - Designated Courses	1 course each
<b>BSBA General Education, Core, and Elective Requirements</b>	
Other General Education	17 hrs
Global Perspectives	9 hrs
Business Core - Lower Division	18 hrs
Business Core - Upper Division	15 hrs
Business Core - Major	18-21 hrs
Business Electives	6-9 hrs
Unrestricted Electives	4-9 hrs
Total Hours Required for Graduation with 2.00 or above GPA	128 hrs

*Note that of the 128 hours required, a minimum of 48 must be earned at Creighton, including the final 32. A minimum of 15-18 hours must be earned at Creighton in the major field of study.*

## **B.S.B.A. Requirements Detailed List:**

### **Magis Common Core Curriculum (p. 116)**

<b>Foundations</b>	<b>Explorations</b>	<b>Integrations</b>	<b>Designated Courses (1 course each)</b>
Contemporary Composition (3 credits)	Understanding Natural Science (2 credits)	Intersections (3 credits)	Designated Ethics
Critical Issues in Human Inquiry (3 credits)	Understanding Social Science (3 credits)		Designated Oral Communications
Oral Communication (1 credit)	Global Perspectives in History (3 credits)		Designated Written Communication
Mathematical Reasoning (2 credits)	Literature (3 credits)		Designated Statistical Reasoning
Philosophical Ideas (3 credits)	Ethics (3 credits)		Designated Technology
The Christian Tradition (3 credits)	The Biblical Tradition (3 credits)		

### **B.S.B.A. General Education, Core, and Elective Requirements:**

#### **Other General Education**

17

Ratio Studiorum (freshman seminar) - RSP 103

Humanities <sup>2</sup>

Introductory Psychology - PSY 201

Applied Math - MTH 201

Statistical Analysis - BUS 229

Managerial Communication - COM 314

<b>Global Perspectives</b>	9
Global Business Class <sup>3</sup>	
Foreign Language or International Culture <sup>5</sup>	
<b>Business Core - Lower Division</b>	18
ACC 201	Introduction To Financial Accounting
ACC 202	Introduction To Managerial Accounting
ECO 203	Introductory Microeconomics
ECO 205	Introductory Macroeconomics
BUS 201	Legal Environment of Business
BIA 253	Management Information Systems
<b>Business Core - Upper Division</b>	15
MKT 319	Principles of Marketing
MGT 301	Managerial Process And Organizational Behavior
FIN 301	Managerial Finance
MGT 385	Production And Operations Management
BUS 471	Strategic Management
<b>Business Major</b>	18-21
See Major Field of Concentration Requirements	
<b>Business Electives</b> <sup>4</sup>	6-9
<b>Unrestricted Electives</b>	4-9

<sup>2</sup> Any class with prefix of ART, DAN, MUS, or THR.

<sup>3</sup> Select among ACC 538, ECO 528, FIN 558, MKT 363, ECO 518, ECO 538, MGT 373. If you also apply the global business class to your major, you must take an additional business elective.

<sup>4</sup> Any classes offered in the Heider College of Business. One of the two business electives can be in the major (optional) but one must be outside the major. A third business elective is only needed if the Global Business class is also counted as one of the elective classes within the chosen major.

<sup>5</sup> There are three options for the Foreign Language/International Culture requirement: (1) one or two courses in French, German, Italian, Japanese, Russian, or Spanish. Students must complete through the 112 level or above. (2) One course in French, German, Italian, Japanese, Russian, or Spanish, and one international class (see list); the language must be spoken in the region; one class must be 200 level or above. (3) Two international studies courses (see list). Both classes must focus on the same country or region.

## BSBA Pre-Health Sciences Curriculum

### Magis Common Core Curriculum (p. 116)

Foundations	Explorations	Integrations	Designated Courses (1 course each)
Contemporary Composition (3 credits)	Understanding Natural Science (2 credits)	Intersections (3 credits)	Designated Ethics

Critical Issues in Human Inquiry (3 credits)	Understanding Social Science (3 credits)	Designated Oral Communications
Oral Communication (1 credit)	Global Perspectives in History (3 credits)	Designated Written Communication
Mathematical Reasoning (2 credits)	Literature (3 credits)	Designated Statistical Reasoning
Philosophical Ideas (3 credits)	Ethics (3 credits)	Designated Technology
The Christian Tradition (3 credits)	The Biblical Tradition (3 credits)	

Note: Explorations: Understanding Natural Science is waived.

## B.S.B.A. General Education, Core, and Elective Requirements:

<b>Other General Education</b>		17
Ratio Studiorum (freshman seminar) - RSP 103		
Introductory Psychology		
Applied Math - MTH 201		
Statistical Analysis - BUS 229		
<b>Global Perspectives</b>		9
Global Business Class <sup>3</sup>		
<b>Business Core - Lower Division</b>		18
ACC 201	Introduction To Financial Accounting	
ACC 202	Introduction To Managerial Accounting	
ECO 203	Introductory Microeconomics	
ECO 205	Introductory Macroeconomics	
BUS 201	Legal Environment of Business	
BIA 253	Management Information Systems	
<b>Business Core - Upper Division</b>		15
MKT 319	Principles of Marketing	
MGT 301	Managerial Process And Organizational Behavior	
FIN 301	Managerial Finance	
MGT 385	Production And Operations Management	
BUS 471	Strategic Management	
<b>Business Major</b>		18-21
See Major Field of Concentration Requirements		
<b>Pre-Health and Business Electives</b>		32-41
BIO 201 & BIO 205	General Biology: Organismal and Population and General Biology: Organismal and Population Lab	
BIO 202 & BIO 206	General Biology: Cellular and Molecular and General Biology: Cellular and Molecular	
CHM 203 & CHM 204	General Chemistry I and General Chemistry I Laboratory	

CHM 205 & CHM 206	General Chemistry II and General Chemistry II Laboratory
CHM 321 & CHM 322	Organic Chemistry I and Organic Chemistry I Laboratory
PHY 201 & PHY 205	General Physics for the Life Sciences and General Physics Laboratory I
PHY 212	General Physics II

Business Electives as needed <sup>4</sup>

- <sup>3</sup> Select among ACC 538, ECO 528, FIN 558, MKT 363, ECO 518, ECO 538, MGT 373. if you also apply the global business class to your major, you must take an additional business elective.
- <sup>4</sup> Any classes offered in the Heider College of Business. One of the two business electives can be in the major (optional) but one must be outside the major. A third business elective is only needed if the Global Business class is also counted as one of the elective classes within the chosen major.

## BSBA 3-3 Curriculum

### Magis Common Core Curriculum (p. 116)

Foundations	Explorations	Integrations	Designated Courses (1 course each)
Contemporary Composition (3 credits)	Understanding Natural Science (2 credits)	Intersections (3 credits)	Designated Ethics
Critical Issues in Human Inquiry (3 credits)	Understanding Social Science (3 credits)		Designated Oral Communications
Oral Communication (1 credit)	Global Perspectives in History (3 credits)		Designated Written Communication
Mathematical Reasoning (2 credits)	Literature (3 credits)		Designated Statistical Reasoning
Philosophical Ideas (3 credits)	Ethics (3 credits)		Designated Technology
The Christian Tradition (3 credits)	The Biblical Tradition (3 credits)		

## B.S.B.A. General Education, Core, and Elective Requirements:

<b>Other General Education</b>	<b>17</b>
Ratio Studiorum (freshman seminar) - RSP 103	
Introductory Psychology	
Applied Math - MTH 201	
Statistical Analysis - BUS 229	
Managerial Communications - COM 314	
<b>Global Perspectives</b>	<b>9</b>
Global Business Class <sup>3</sup>	

<b>Business Core - Lower Division</b>		<b>18</b>
ACC 201	Introduction To Financial Accounting	
ACC 202	Introduction To Managerial Accounting	
ECO 203	Introductory Microeconomics	
ECO 205	Introductory Macroeconomics	
BUS 201	Legal Environment of Business	
BIA 253	Management Information Systems	
<b>Business Core - Upper Division</b>		<b>15</b>
MKT 319	Principles of Marketing	
MGT 301	Managerial Process And Organizational Behavior	
FIN 301	Managerial Finance	
MGT 385	Production And Operations Management	
BUS 471	Strategic Management	
<b>Business Electives</b>		<b>6</b>
Non-restricted Electives <sup>2-4</sup>		

<sup>3</sup> Select among ACC 538, ECO 528, FIN 558, MKT 363, ECO 518, ECO 538, MGT 373. if you also apply the global business class to your major, you must take an additional business elective.

<sup>4</sup> Any classes offered in the Heider College of Business. One of the two business electives can be in the major (optional) but one must be outside the major. A third business elective is only needed if the Global Business class is also counted as one of the elective classes within the chosen major.

## Encuentro Dominicano

The Heider College of Business 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 information about the Encuentro Dominicano Program (p. 214).

## Typical Four-Year Degree Program in Business

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 Heider College of Business Dean's Office has available four-year plans of study handouts for all Business fields of concentration. Junior and senior year course planning requires an understanding of degree requirements and attention to the Schedule of Courses and Catalog.

Academic advising is performed by faculty members and department chairs in the Heider College of Business. Faculty advisors are assigned to freshmen and then students are reassigned 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

Fall		Credits
ENG 150	Contemporary Composition:College Composition	3
RSP 103	An Introduction to the Culture of Collegiate Life	1
HIS 101	The Modern Western World	3
THL 100-125: 1 Course		3
Social Science (IVE) <sup>1</sup>		3
MTH 141 or MTH 245	Applied Calculus or Calculus I	3-4
<b>Term Credits</b>		<b>16-17</b>

### Spring

ACC 201	Introduction To Financial Accounting	3
PHL 107	Critical And Historical Introduction To Philosophy	3
PSY 111	Introductory Psychology	3
Natural Science (IVC) <sup>1</sup>		3-4
MTH 201	Applied Mathematics	3
<b>Term Credits</b>		<b>15-16</b>

### Sophomore

Fall		Credits
ACC 202	Introduction To Managerial Accounting	3
BUS 229	Statistical Analysis	4
COM 152	Civic Engagement through Public Communication	3
ECO 203	Introductory Microeconomics	3
BUS 201 or BIA 253	Legal Environment of Business or Management Information Systems	3
<b>Term Credits</b>		<b>16</b>
Spring		Credits
PHL 250	Philosophical Foundations For Ethical Understanding	3
ECO 205	Introductory Macroeconomics	3
Non-restrictive Elective (VIIC) <sup>1</sup>		1-3

BUS 201 or BIA 253	Legal Environment of Business or Management Information Systems	3
ENG 120 or ENG 121	World Literature I or World Literature II	3
<b>Term Credits</b>		<b>13-15</b>
Total Credits:		60-64

<sup>1</sup> Refer to General Curriculum

## Accounting

The curriculum for the degree of Bachelor of Science in Business Administration with Accounting as the field of concentration 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 professional accounting careers in a variety of settings - public accounting, internal auditing, managerial accounting, and governmental accounting. In addition, students have the foundation to pursue positions in tax compliance and consulting, accounting systems, and consulting services. The program is an excellent preparation for further graduate or professional school studies.

## About the Department

The Department of Accounting of the Heider College of Business has been separately accredited by AACSB International since that organization began separate accreditation of accounting programs in 1982. The department has been nationally recognized for the quality of its programs, its faculty, and its graduates. The majority of students enrolled in the undergraduate program are prepared to sit for the Uniform CPA Examination within four years. The department also offers a Master of Accounting degree program.

## Department of Accounting Mission Statement

The Department of Accounting of the Heider College of Business 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.

## Major in Accounting

- B.S., Major in Accounting (p. 525)

## Courses

### **ACC 201. Introduction To Financial Accounting. 3 credits. FA, SP, SU**

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 credits. FA, SP, SU**

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 credits. 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 credits. FA, SU**

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 credits. FA, SP**

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 credits. OD, SP**

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 credits. SP**

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. The course contains a required service-learning component. P: ACC 313.

**ACC 366. Internships in Accounting. 3 credits. FA, SP, SU**

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 pass/fail and may be taken only once. Enrollment is limited. P: Second semester Jr. or higher standing and IC.

**ACC 377. Accounting Information Systems. 3 credits. FA, SP**

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 credits. FA**

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 credits. 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 credits. 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 credits. OD**

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.

**ACC 516. Special Managerial Accounting Issues. 3 credits. OD, SU**

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 credits. SP**

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. The means of analyzing and interpreting accounting data is also emphasized in the course. P: ACC 315, ACC 319; Sr. stdg.

**ACC 523. Advanced Auditing. 3 credits.**

This course embeds the advanced study of auditing in an experiential professional context through case analysis, simulations, professional standards, and practitioner involvement. Emphasis is placed on the development of employment-ready competencies such as critical thinking, professional judgment, professional skepticism, oral and written communication, ethical reasoning, and leadership and team building. Broad exposure to the professional accounting/auditing literature assists students in reflecting on course technical content and in preparing for professional certification examinations. P: ACC 423.

**ACC 538. International Accounting. 3 credits. SP**

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 credits. FA**

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 credits. OD, SP**

Exploration and analysis of selected problems and issues in the accounting area of today's environment. Course content changes from semester to semester. This course is repeatable as long as topic differs (12 credits). P: ACC 201, 202; Sr. stdg.

## Accounting Major

### Accounting Major Requirements: 21 Credits

ACC 313	External Financial Reporting Issues	3
ACC 315	Managerial Accounting for Decision Making	3
ACC 319	Financial Accounting And Reporting Standards	3

ACC 343	Principles of Taxation	3
ACC 377	Accounting Information Systems	3
ACC 423	Auditing	3
Select one of the following:		3
ACC 493	Directed Independent Readings	
ACC 516	Special Managerial Accounting Issues	
ACC 521	Advanced Accounting	
ACC 544	Advanced Taxation	
ACC 579	Seminar in Accounting	
Total Credits		21

**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

Contact the Assistant Dean with any questions regarding the minor or certificate in Business Administration.

### Minor in Business

- Business Administration (p. 528)

### Certificate in Business

- Business Administration (p. 529)

### Courses

#### **BUS 101. Dean's Fellows Foundational Sequence. 0 credits.**

Deans Fellows course. Graded Satisfactory/Unsatisfactory. P:Deans Fellow; IC.

#### **BUS 201. Legal Environment of Business. 3 credits. FA, SP**

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 credits. FA, SP, SU**

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 MTH 245; MTH 201.

**BUS 256. Business Ethics. 3 credits.**

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: So. stdg.

**BUS 301. Business Law. 3 credits. FA, SP**

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 credits. FA**

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 credit. SP**

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 credits. FA, SP**

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 credits. FA, SP, SU**

This course is designed to give credit to students for major-related significant practical business experience. The internship should allow the students to apply concepts and technical skills learned in the classroom to a real work setting. Students must work 150 hours during a semester; write a final paper describing the learning value of their internship; and participate in an end-of-semester synthesis session. The student's internship employment must be secured before registering for the class. The course is graded on a satisfactory/unsatisfactory basis and only 3 hours of internship credit may be used to satisfy graduation requirements. P: Second semester Jr. or higher standing in the Heider College of Business.

**BUS 401. Legal Aspects of Life Insurance. 3 credits.**

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, Jr. Stdg., elementary level skills in Microsoft Office Suite.

**BUS 471. Strategic Management. 3 credits. FA, SP**

Strategic Management is a discipline that studies the variability of performance across organizations. Students will be exposed to the theories and models of both Competitive Strategy and Corporate Strategy. The course utilizes the case method of teaching to expose students to historical business scenarios that highlight the complexity of strategic decision making across multiple industries and countries. Class discussion, writing assignments, and presentations are used to promote critical thinking in the analysis of case details and the application of theoretical frameworks. As the capstone of the BSBA degree, the course requires students to apply all their acquired disciplinary knowledge in conjunction with the theories of strategic management to craft strategies that create sustained competitive advantage for organizations. P: Heider College of Business Sr. stdg; FIN 301, MGT 301, MKT 319.

**BUS 479. Seminar in Business. 1-3 credits. FA, SP**

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 credits. 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 QPA 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 credits. OD**

Supervised independent research on topics beyond the regular course coverage. Course is limited to students who have a QPA of 3.0 or better. P: Sr. stdg; DC and Dean's approval.

## Business Administration Minor

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 Heider College of Business.

## Minor in Business Administration Requirements: 18 Credits

ACC 201	Introduction To Financial Accounting	3
ECO 203	Introductory Microeconomics	3
MGT 301	Managerial Process And Organizational Behavior	3
MKT 319	Principles of Marketing	3
Select two of the following:		6
BIA 253	Management Information Systems	
BUS 201	Legal Environment of Business	
FIN 353	Personal Financial Planning	
Total Credits		18

## Certificate in Business Administration

A student enrolled outside the Heider College of Business who does not plan to earn a bachelor's or master's degree from the Heider College of Business, may earn a Certificate of Business Administration. This certificate, along with a bachelor's degree in any discipline, prepares a non-business student for graduate work in the M.B.A., M.S.-BIA, and M.S.A.P.M. programs. Students wishing to complete this program must file an application with the Undergraduate Coordinator in the Heider College of Business.

## Certificate in Business Administration Requirements: 31 Credits <sup>1</sup>

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
Total Credits		31

<sup>1</sup> **Please Note:** The 31 required certificate hours is the maximum number of credits in which a non-business administration student may enroll in the Heider College of Business.

While no specific mathematics courses are required for the certificate, successful completion of BUS 229 Statistical Analysis 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.

## 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. Substitution for BIA courses may be made only with the approval from the major advisor and department chair.

## Majors in Business Intelligence and Analytics

- B.S., Major in Business Administration with a Concentration in Business Intelligence and Analytics: Business Analytics Track (p. 533)
- B.S., Major in Business Administration with a Concentration in Business Intelligence and Analytics: Information Technology Track (p. 534)
- B.S., Major in Business Administration with a Concentration in Business Intelligence and Analytics: Digital Media and Design Track (p. 533)

## Minor in Business Intelligence and Analytics

- Applied Information Technology (p. 534)

## Courses

### **BIA 253. Management Information Systems. 3 credits. FA, SP**

An introduction to the field of management information systems and the role of information systems in today's organizations. The course focuses on key concepts including fundamental enabling technologies, database, software development, decision support and knowledge work-support systems as well as MIS systems for operations, control, and strategic planning. The organizational foundations of systems, their strategic role, and the technologies driving change in the business processes will be discussed. P: So. stdg.

### **BIA 354. Data and Information Management. 3 credits. SP**

Course develops both skill and knowledge relative to data base design and management. P: BIA 253; Jr. stdg.

### **BIA 366. Business Intelligence and Analytics Internship. 3 credits. FA, SP, SU**

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 standing; IC.

### **BIA 375. Business Application Development. 3 credits. SP**

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 credits. FA, SP**

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 credits. FA, SP**

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 credits. FA**

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 credits. FA, SP**

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 credits.**

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 credits.**

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. Upon finishing the course, the student is expected to have a good grasp on the strategic, managerial and technical issues in the design and implementation of wireless and mobile e-commerce systems. P: BIA 253, BIA 375.

**BIA 483. Managing Information Resources. 3 credits.**

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 credits.**

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 and BIA 253.

**BIA 485. Applications of Artificial Intelligence. 3 credits.**

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 Modeling. 3 credits.**

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 credits. 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 P: QPA of 3.0 or better; Sr. stdg.; DC and Dean's approval.

**BIA 497. Directed Independent Research. 1-3 credits. OD**

Supervised independent research on topics beyond the regular course coverage. Course is limited to students who have a QPA of 3.0 or better. P: Sr. stdg; DC and Dean's approval.

**BIA 499. Practicum in Business Intelligence & Analytics. 1 credit. FA, SP, SU**

This course is designed to provide students with practical understanding and exposure to business applicability of concepts, methods and techniques in BIA. Students attend lectures and seminars, visit businesses, and participate in dialogues with business leaders to further their understanding of BIA. Students keep a journal of their reflective thoughts after attending lectures, discussions, and interactions with industry representatives. This course is graded satisfactory/unsatisfactory. This course can only be taken once for credit and can not be repeated. P: At least one BIA course at 300 level or above, IC.

## Business Analytics Track

### Business Analytics Track Requirements: 19 Credits

BIA 354	Data and Information Management	3
BIA 375	Business Application Development	3
BIA 459	Information Systems Analysis and Design	3
BIA 479	Seminar in Decision and Information Technology	3
BIA 499	Practicum in Business Intelligence & Analytics	1
Select six credits from the following:		6
BIA 484	Business Intelligence and Data Analytics	
BIA 485	Applications of Artificial Intelligence	
BIA 486	Managerial Decision Modeling	
ECO 418	Econometrics	
MKT 343	Marketing Research	
MTH 513	Probability And Statistics In The Health Sciences	
Total Credits		19

## Digital Media and Design Track

### Digital Media and Design Track Requirements: 18 Credits

BIA 354	Data and Information Management	3
BIA 375	Business Application Development	3
BIA 459	Information Systems Analysis and Design	3
Select six credits from the following:		6
GDE 380	Graphic Design I	
GDE 381	Graphic Design II	
GDE 382	Web Design	
GDE 423	Interactive Multimedia Design	
GDE 425	3D Graphics and Animation	
Select three additional credits in BIA numbered 300 and above.		3
Total Credits		18

## Information Technology Track

### Information Technology Track Requirements: 18 Credits

BIA 354	Data and Information Management	3
BIA 375	Business Application Development	3
BIA 459	Information Systems Analysis and Design	3
Select nine additional credits in BIA numbered 300 and above.		9
Total Credits		18

## Applied Information Technology Minor

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 Heider College of Business.

### Minor in Applied Information Technology Requirements: 18 Credits

BIA 253	Management Information Systems	3
BIA 354	Data and Information Management	3
BIA 375	Business Application Development	3
BIA 459	Information Systems Analysis and Design	3
Select two BIA electives as approved by the advisor.		6
Total Credits		18

## Economics and Finance

### Economics

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.

### 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
- Insurance and Risk Management

Substitutions for finance electives may be made only with the approval from the major advisor or Department Chair.

## International Business

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.

## 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.

## Majors in Economics and Finance

- B.S. in Business Administration with a Concentration in Finance: Financial Analysis Track (p. 542)
- B.S. in Business Administration with a Concentration in Finance: Financial Planning Track (p. 542)
- B.S. in Business Administration with a Concentration in Finance: Financial Services Track (p. 543)
- B.S. in Business Administration with a Concentration in Finance: Insurance and Risk Management Track (p. 543)
- B.S., Major in Business Administration with a Concentration in International Business (p. 543)
- Economics Major for Business Administration Students (p. 541)
- Economics Major for Arts and Sciences Students (p. 541)

## Minor in Economics and Finance

- Economics (p. 544)

## Courses

### **ECO 203. Introductory Microeconomics. 3 credits. FA, SP, SU**

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 credits. FA, SP, SU**

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 credits. FA**

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 MTH 245; Jr. stdg.

### **ECO 305. Intermediate Macroeconomics. 3 credits. SP**

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 credits. FA**

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 credits. 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 credits. 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 366. Economics Internship. 3 credits. FA, SP, SU**

This course is designed to provide students with practical economics experience by applying economics 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' economics course work, and c) approval by the coordinator of Economics internships in the Department of Economics and Finance. The course is graded satisfactory/unsatisfactory and only 3 hours of internship credit may be used to satisfy graduation requirements. P: Second semester Jr. or higher standing.

**ECO 408. Current Issues In Social Economics And Political Economy. 3 credits. 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 ECO 301; Jr. stdg.

**ECO 413. Market Power And Antitrust Policy. 3 credits. 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 credits. 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 credits. 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 credits. 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 credits. 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 credits. FA, SP**

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 credits. FA, SP**

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 QPA 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 credits. 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 QPA 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 credits. SP**

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 credits. 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 credits. 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: ECO 205 or equivalent for Graduate students.

**ECO 528. International Economic Development. 3 credits. SP**

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 requirement for an international course. P: ECO 205 or equivalent for Graduate students.

**ECO 538. International Economics. 3 credits. FA**

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 requirements for an international course. P: ECO 205 or equivalent for Graduate students.

**FIN 301. Managerial Finance. 3 credits. FA, SP, SU**

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 credits. FA, SP**

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 credits. 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 credits. FA, SP**

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 credits. FA, SP**

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 credits. FA, SP**

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 credits. FA, SP**

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; ACC 201, ECO 203; Jr. Stdg.

**FIN 361. Financial Institutions Management. 3 credits. 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 credits. FA, SP, SU**

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 Jr. or higher standing.

**FIN 401. Advanced Managerial Finance. 3 credits. FA, SP**

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 425. Security Analysis And Portfolio Management. 3 credits. FA, SP**

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 credits. SP**

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 credits. FA**

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 credits. SP**

Continuation of FIN 435. P: FIN 435; DC.

**FIN 479. Seminar in Finance. 3 credits. FA, SP**

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 credits. 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 credits. FA, SP**

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 QPA 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 credits. OD**

Supervised independent research on topics beyond the regular course coverage. Course is limited to students who have a QPA or 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 credits. FA, SP**

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 credits. FA, SP**

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 DC.

**FIN 512. Estate Planning and Taxation. 3 credits. FA, SP**

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 DC.

**FIN 513. Life Insurance Financial Planning. 3 credits.**

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: Jr. Stdg., ECO 203, FIN 340, or DC, elementary level skills in Microsoft Office Suite.

**FIN 514. Planning for Business and Professionals. 3 credits.**

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: Jr. Stdg., ECO 203, FIN 301, FIN 513 or DC, elementary level skills in Microsoft Office Suite.

**FIN 558. International Financial Management. 3 credits. SP**

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.

## Economics Major for Arts and Sciences Students

### Economics Major for Arts and Sciences Students Requirements: 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 major field of study.

**Concentration Major**

BUS 229	Statistical Analysis	4
ECO 203	Introductory Microeconomics	3
ECO 205	Introductory Macroeconomics	3
ECO 303	Intermediate Microeconomics	3
ECO 305	Intermediate Macroeconomics	3
ECO 508	Development Of Political Economy	3
Select 15 credits of upper division courses in economics.		15
ECO 203 and ECO 205 should be taken before junior year. ECO 303 and ECO 305 should be taken in the junior year.		
Total Credits		34

## Economics Major for Business Administration Students

### Economics Major for Business Administration Students Requirements: 18 Credits

ECO 303	Intermediate Microeconomics	3
ECO 305	Intermediate Macroeconomics	3
ECO 508	Development Of Political Economy	3
Select nine credits of economics electives 300 level or higher.		9
Total Credits		18

## Financial Analysis Track

### Financial Analysis Track Requirements: 21 Credits

FIN 325	Investment Analysis	3
FIN 350	Financial Statement Analysis	3
FIN 401	Advanced Managerial Finance	3
Select nine credits from the following:		9
FIN 361	Financial Institutions Management	
FIN 366	Finance Internship	
FIN 425	Security Analysis And Portfolio Management	
FIN 433	Real Estate Finance	
FIN 435	Portfolio Practicum I	
FIN 436	Portfolio Practicum II	
FIN 491	The Financial World: A Campus And Travel Course	
Three credits of Finance electives.		
Select one of the following:		3
ACC 313	External Financial Reporting Issues	
ACC 315	Managerial Accounting for Decision Making	
ACC 538	International Accounting	
MBA 701	Financial Reporting for MBA's	
MSA 722	Fixed Income and Derivatives I	
MSA 724	Quantitative Analysis	
<hr/>		
Total Credits		21

## Financial Planning Track

### Financial Planning Track Requirements: 21 Credits

ACC 343	Principles of Taxation	3
FIN 340	Principles of Insurance	3
FIN 353	Personal Financial Planning	3
FIN 325	Investment Analysis	3
FIN 511	Retirement Planning and Employee Benefits	3
FIN 512	Estate Planning and Taxation	3
Financial Planning Capstone (FIN 479) <sup>1</sup>		3
<hr/>		
Total Credits		21

<sup>1</sup> No exceptions or substitutions will be made. FIN 479 must be taken as Financial Planning Capstone.

## Financial Services Track

### Financial Services Track Requirements: 21 Credits

FIN 325	Investment Analysis	3
FIN 353	Personal Financial Planning	3
FIN 361	Financial Institutions Management	3
Select one of the following:		3
MKT 333	Consumer And Market Behavior	
MKT 335	Sales Management	
MKT 343	Marketing Research	
Select nine credits of Finance electives, 300 level or higher, chosen in consultation with major advisor or Department Chair.		9
<hr/> Total Credits		21

## Insurance and Risk Management Track

### Insurance and Risk Management Track Requirements: 21 Credits

FIN 340	Principles of Insurance	3
FIN 325	Investment Analysis	3
ACC 343	Principles of Taxation	3
FIN 512	Estate Planning and Taxation	3
FIN 513	Life Insurance Financial Planning	3
FIN 514	Planning for Business and Professionals	3
Select one of the following:		3
FIN 353	Personal Financial Planning	
FIN 511	Retirement Planning and Employee Benefits	
BUS 401	Legal Aspects of Life Insurance	
<hr/> Total Credits		21

## International Business Major

### International Business Major Requirements: 18 credits <sup>1</sup>

ACC 538	International Accounting	3
ECO 538	International Economics	3
MGT 373	International Management	3
MKT 363	Global Marketing	3
FIN 558	International Financial Management	3

Select one pre-approved international business course	3
Total Credits	18

- <sup>1</sup> 9 credits of Business Electives are required for International Business majors, unless have a second major.

## 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.

### Minor in Economics Requirements: 18 Credits

ECO 203	Introductory Microeconomics	3
ECO 205	Introductory Macroeconomics	3
ECO 303	Intermediate Microeconomics	3
ECO 305	Intermediate Macroeconomics	3
Select six credits of 300 and above ECO courses.		6
Total Credits		18

## Marketing and Management

### 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)
- 4-Year Pre-Law

### Marketing

For the degree of Bachelor of Science in Business Administration with Marketing as the field of concentration, this program is designed for students interested in general careers in marketing management and/or specific jobs in sales, service, retailing, advertising, marketing research, or customer analytics. The major consists of nine credit hours that examine core elements of marketing

management and nine credit hours tailored to a student's particular interests. Students may choose a specialization within marketing, but are not required to do so. They may only specialize in one area within marketing. No more than six credit hours may be counted toward both a marketing major and any other major or track within the business school. Substitutions for marketing electives may be made only with the approval of the Department Chair. Students considering marketing as a major are advised to take MKT 319 Principles of Marketing before the fall semester of their junior year.

## Majors in Marketing and Management

- B.S., Major in Business Administration with a Concentration in Management: Bioscience Entrepreneurship Track (p. 550)
- B.S., Major in Business Administration with a Concentration in Management: Business Ethics Track (p. 551)
- B.S., Major in Business Administration with a Concentration in Management: General Entrepreneurship Track (p. 552)
- B.S., Major in Business Administration with a Concentration in Management: Human Resources Management Track (p. 553)
- B.S., Major in Business Administration with a Concentration in Management: Military Management Track (p. 555)
- B.S., Major in Business Administration with a Concentration in Management: Pre-Law Track (p. 555)
- B.S., Major in Business Administration with a Concentration in Management: Social Entrepreneurship Track (p. 556)
- B.S., Major in Business Administration with a Concentration in Marketing (p. 553)

## Minors in Marketing and Management

- Bioscience Entrepreneurship (p. 556)
- Social Entrepreneurship (p. 557)

## Courses

### **ENT 311. Innovation and Creativity. 3 credits. FA, SP**

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 and general entrepreneurship major and concentration sequence. P: Completion of at least 45 hours of college credit.

**ENT 366. Entrepreneurship Internship. 3 credits. FA, SP**

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. P: ENT 311 or ENT 418; Second semester Jr. or higher standing; IC.

**ENT 411. Finance for Entrepreneurial Ventures. 3 credits. FA, SP**

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: ECO 203.

**ENT 418. Bioscience Technology Commercialization. 3 credits. FA**

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: ENT 411.

**ENT 451. Vocation of the Business Leader. 3 credits. SP**

What does it mean to embrace the role of a business leader as a vocation? This course examines the answer to that question at length and in depth. Questions examined include: How should leaders lead and communicate for organizations in which social mission is a fundamental component? How should we view acquisition and execution of power where one's leadership role is embraced as vocation? What principles and values guide a company where business is positioned as a source of hope? What questions should leaders ask themselves to better understand the extent to which their organization is truly contributing to the common good? How can we use these principles to evaluate current organizations positioned on faith and social responsibility to assess the true effectiveness of their contribution to the common good of society? P: Senior standing.

**ENT 473. Venture Creation and Development. 3 credits. FA, SP**

An experiential course on venture creation and entrepreneurship in which participants learn the following tools: opportunity/idea modeling, strategic pivoting, dynamic landscaping, tribe organizational structures, and pitch development. These cutting edge tools build the framework for robust and innovative entrepreneurial/intrapreneurial ventures for any ecosystem. This course caps all entrepreneurship major and minor concentration sequences. P: ENT 311 or ENT 418; ENT 411; MKT 319; Senior standing.

**ENT 475. Entrepreneurship Incubator. 3 credits. SP**

This course allows students who have completed ENT 471 (Strategic Entrepreneurship) to implement the plans devised in either ENT 471 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 473; IC.

**ENT 479. Seminar in Entrepreneurship. 3 credits. FA, SP**

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 credits. FA, SP**

Supervised independent research on topics beyond the regular course coverage. Course is limited to students who have a GPA of 3.0 or better. P: Senior standing; Department Consent and Dean's approval.

**ENT 511. Finance for Entrepreneurial Ventures. 3 credits. FA, SP**

Available to graduate and undergraduate students, this course is designed to provide students with an exposure to financial concepts in entrepreneurship from both a theoretical and managerial perspective. (Students taking the course for graduate credit are typically required to complete additional work beyond the requirements for undergraduate credit.) 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:IC.

**ENT 518. Bioscience Technology Commercialization. 3 credits. FA**

Available to graduate and undergraduate students, this course is the first in a two-course sequence designed to educate students in law, science, health science and business about commercializing technology in the biosciences. (Students taking the course for graduate credit are typically required to complete additional work beyond the requirements for undergraduate credit.) 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: IC.

**ENT 551. Sustainable Enterprise and Social Entrepreneurship. 3 credits. SP**

The pervasiveness of business claims about being "green" and increased societal expectations for businesses to be "responsible" have brought sustainability into the mainstream. Companies desiring competitive advantage and leadership have embraced sustainability as an integral component of their strategy. At the same time, recognizing the capabilities of business, "social entrepreneurs" are moving to address problems previously assumed to be the responsibility of governments. Available to graduate and undergraduate students, this course will examine what it means to be "sustainable" and what strategies corporations employ in support of their sustainability mission. (Students taking the course for graduate credit are typically required to complete additional work beyond the requirements for undergraduate credit.) Additionally, the course will explore corporations' efforts to expand their markets to include the "base of the pyramid" as well as examples of social entrepreneurship ventures which aim to promote social welfare. P: IC.

**ENT 555. Renewable Energy Strategy. 3 credits. FA**

Over the last decade, investment in renewable energy technologies and business ventures has increased markedly; spurred on mostly by rising energy costs and concerns regarding future carbon regulations. Available to graduate and undergraduate students, this course is designed to provide future managers with the skills to apply the tools of strategic management to the unique business challenges of the growing renewable energy sector. (Students taking the course for graduate credit are typically required to complete additional work beyond the requirements for undergraduate credit.) The case based teaching method will be utilized in the course. By examining real world examples of firms engaged in renewable energy business models, students will learn to identify where strategic management tools remain relevant and where these additional factors require an adaptation of traditional strategic thinking. P: IC.

**ENT 573. Venture Creation and Development. 3 credits. SP**

Available to graduate and undergraduate students, this is an experiential course on venture creation and entrepreneurship in which participants learn the following tools: opportunity/idea modeling, strategic pivoting, dynamic landscaping, tribe organizational structures, and pitch development. (Students taking the course for graduate credit are typically required to complete additional work beyond the requirements for undergraduate credit.) These cutting edge tools build the framework for robust and innovative entrepreneurial/intrapreneurial ventures for any ecosystem. P: ENT 518; IC.

**MGT 301. Managerial Process And Organizational Behavior. 3 credits. FA, SP, SU**

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 credits. 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. Personal/Human Resources Management. 3 credits. 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 credits. FA, SP**

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 credits. 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 credits. FA, SP**

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 credits. FA, SP**

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 credits. 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 QPA of 3.0 or better. P: Sr. stdg. and Dean's approval.

**MGT 497. Directed Independent Research. 1-3 credits. OD**

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.

**MKT 319. Principles of Marketing. 3 credits. FA, SP, SU**

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 and 45 completed credit hours.

**MKT 325. Franchising And Small Business Marketing. 3 credits. 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 credits. FA, SP**

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 credits. FA**

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 credits. FA**

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 credits. FA, SP**

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 credits. OD**

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 credits. FA, SP**

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 credits. FA, SP, SU**

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: Second semester Jr. or higher standing; IC.

**MKT 453. Sports and Special Event Marketing. 3 credits. FA**

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 credits. SP**

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 credits. FA, SP**

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 credits. 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. P: COBA students only; Sr. stdg; DC and Dean's approval.

**MKT 497. Directed Independent Research. 1-3 credits. OD**

Supervised independent research on topics beyond the regular course coverage. Course is limited to students who have a QPA of 3.0 or better. P: Sr. stdg; DC and Dean's approval.

## Bioscience Entrepreneurship Track

### Bioscience Entrepreneurship Track Requirements: 18 Credits

ENT 411	Finance for Entrepreneurial Ventures	3
ENT 418	Bioscience Technology Commercialization	3
ENT 473	Venture Creation and Development	3
<b>One of the following:</b>		<b>3</b>
ENT 311	Innovation and Creativity	
ENT 366	Entrepreneurship Internship	

ENT 451	Vocation of the Business Leader	
ENT 475	Entrepreneurship Incubator	
ENT 551	Sustainable Enterprise and Social Entrepreneurship	
ENT 555	Renewable Energy Strategy	
ENT elective (at 300 level or above)		
MKT 333	Consumer And Market Behavior	
<b>One of the following:</b>		<b>3</b>
MKT 335	Sales Management	
MKT 343	Marketing Research	
MKT 363	Global Marketing	
MKT elective (at 300 level or above)		
<b>Elective</b>		<b>3</b>
Additional three credits from any department in the University chosen in consultation with an ENT faculty member and approved by Dept Chair.		
Total Credits		18

## Business Ethics Track

### Business Ethics Track Requirements: 18 Credits

ECO 528	International Economic Development	3
Select one of the following:		3
MGT 341	Advanced Organizational Behavior	
MGT 479	Seminar in Management	
PSY 369	Organizational Psychology	
Select twelve credits from the following: <sup>1</sup>		12
ACC 423	Auditing	
ANT 455	Food, Society, and Environment	
BIA 354	Data and Information Management	
EVS 354	Environmental Ethics	
FIN 343	Social Insurance And Economic Security	
JRM 438	Media Ethics	
JPS 365	Faith And Moral Development	
MGT 373	International Management	
PHL 309	Meaning in America	
PHL 317	Philosophy of Sport	
PHL 331	Moral Philosophy	
PHL 348	Philosophy of Feminism	
PHL 351	Introduction To Chinese Philosophy	
PHL 353	Introduction to Buddhism	
PHL 354	Environmental Ethics	
PHL 355	Science, Technology, and Values	

PHL 358	Social And Political Philosophy
PHL 359	History of Ethics
PHL 368	Moral Psychology
PHL 435	Literature, Philosophy, And Economics: Critical Representations Of Commercial Life
PHL 453	Ethics and Public Policy
PHL 459	Marxism
PHL 482	Race In America: Idea And Reality
PLS 340	International Politics
PSY 344	Social Psychology
SOC 309	The Urban Social System
SWK 409	Race and Gender Relations: Moral and Ethical Dilemmas
THL 572	Ethics and Spirituality

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

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Total Credits 18

- <sup>1</sup> 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 Auditing, FIN 343 Social Insurance And Economic Security, BIA 354 Data and Information Management, & MGT 373 International Management. A student interested in spirituality in the workplace might take JPS 365 Faith And Moral Development, PHL 353 Introduction to Buddhism, PHL 368 Moral Psychology, and THL 572 Ethics and Spirituality. Other combinations are possible. A student wanting help with options should visit with Dr. Beverly Kracher.

## General Entrepreneurship Track

### General Entrepreneurship Track Requirements: 18 Credits

ENT 311	Innovation and Creativity	3
ENT 411	Finance for Entrepreneurial Ventures	3
ENT 473	Venture Creation and Development	3
<b>One of the following:</b>		<b>3</b>
ENT 366	Entrepreneurship Internship	
ENT 451	Vocation of the Business Leader	
ENT 475	Entrepreneurship Incubator	
ENT 551	Sustainable Enterprise and Social Entrepreneurship	
ENT 555	Renewable Energy Strategy	
ENT elective (at 300 level or above)		
<b>One of the following:</b>		<b>3</b>
MKT 333	Consumer And Market Behavior	
MKT 335	Sales Management	
MKT 343	Marketing Research	
MKT 363	Global Marketing	

MKT elective (at 300 level or above)

### Elective

Additional three credits from any department in the University chosen in consultation with an ENT faculty member and approved by Dept Chair.

Total Credits 15

## Human Resources Management Track

### Human Resources Management Track Requirements: 18 Credits

MGT 351 Personal/Human Resources Management 3

Select one of the following: 3

MGT 341 Advanced Organizational Behavior

MGT 479 Seminar in Management

PSY 369 Organizational Psychology

Select twelve credits from the following: 12

BUS 366 Business Internships

COM 320 Leadership: Theories, Styles, And Skills

COM 361 Interpersonal Communication

COM 362 Small Group Communication

COM 463 Communication Consulting

MGT 479 Seminar in Management

PHL 368 Moral Psychology

PSY 344 Social Psychology

PSY 353 Industrial Psychology

PSY 423 Psychological Assessments

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

Total Credits 18

## Marketing Major

### Marketing Major Requirements: 18 Credits

MKT 333 Consumer And Market Behavior 3

MKT 343 Marketing Research 3

MKT 473 Marketing Management: Policy And Strategy 3

Select either nine credits of MKT electives at the 300-400 level OR choose one of the specializations outlined below 9

Total Credits 18

## Specialization in Strategic Communications

This specialization within the marketing major focuses on strategic communications, including advertising and public relations. It is designed for students interested in advertising, branding, public relations, or corporate communications. In place of the nine credit hours of MKT electives, students selecting this specialization take:

MKT 333	Consumer And Market Behavior	3
MKT 343	Marketing Research	3
MKT 473	Marketing Management: Policy And Strategy	3
MKT 353	Advertising And Promotion	3
MKT 479	Seminar in Marketing	3
Select one of the following:		3
JRM 327	Social Media	
JRM 341	Public Relations Writing	
JRM 347	Advertising Campaigns I	
JRM 433	Advertising Copy Writing	
GDE 380	Graphic Design I	
GDE 423	Interactive Multimedia Design	
MKT elective at the 300 or 400 level		
Total Credits		18

## Specialization in Customer Analytics

This specialization within the marketing major focuses on the research component of the marketing discipline (data collection, organization, analysis, and interpretation). It is designed for students interested in marketing research, consumer insights, customer analytics, or graduate work in marketing. In place of the nine credit hours of MKT electives, students selecting this specialization take:

MKT 333	Consumer And Market Behavior	3
MKT 343	Marketing Research	3
MKT 473	Marketing Management: Policy And Strategy	3
BIA 354	Data and Information Management	3
BIA 479	Seminar in Decision and Information Technology	3
or MKT 479	Seminar in Marketing	3
Select one of the following:		3
MKT 366	Marketing Internship (must be specialization-specific)	
BIA 484	Business Intelligence and Data Analytics	
BIA 486	Managerial Decision Modeling	
ECO 418	Econometrics	
MTH 513	Probability And Statistics In The Health Sciences	
Total Credits		18

## Military Management Track

### Military Management Track Requirements: 18 Credits (open only to ROTC students)

MIL 300	Leadership Laboratory III	1
MIL 301	Adaptive Team Leadership	3
MIL 302	Advanced Team Leadership	3
MIL 351	Cadet Leadership Course	3
MIL 400	Leadership Laboratory IV	1
MIL 401	Mission Command and Advanced Leadership	2
MIL 402	Military Management Seminar	2
MGT 479	Seminar in Management	3
Total Credits		18

## Pre-Law Track

### Pre-Law Track Requirements: 18 Credits

BUS 301	Business Law	3
BUS 321	Mock Trial Lecture	2
BUS 322	Mock Trial Practicum	1
Select twelve credits from the following:		12
ACC 343	Principles of Taxation	
ACC 544	Advanced Taxation	
BUS 366	Business Internships	
COM 321	Persuasion	
HIS 354	Constitutional History Of The United States To 1877	
HIS 355	Constitutional History of the United States Since 1877	
HIS 372	Equality, Minorities, And Public Policy	
JRM 529	Law of Mass Communication	
MGT 351	Personal/Human Resources Management	
PHL 312	Symbolic Logic	
PLS 320	Judicial Process	
PLS 337	Constitutional Law	
PLS 438	Contemporary Issues In Civil Liberties	
PSY 363	Psychology and the Law	
SOC 321	Sociology of the Criminal Justice System	
SOC 423	Law and Society	

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

Total Credits		18
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## Social Entrepreneurship Track

### Social Entrepreneurship Track Requirements: 18 Credits

ENT 311	Innovation and Creativity	3
ENT 411	Finance for Entrepreneurial Ventures	3
ENT 473	Venture Creation and Development	3
<b>One of the following:</b>		<b>3</b>
ENT 366	Entrepreneurship Internship	
ENT 451	Vocation of the Business Leader	
ENT 475	Entrepreneurship Incubator	
ENT 551	Sustainable Enterprise and Social Entrepreneurship	
ENT 555	Renewable Energy Strategy	
ENT elective (at 300 level or above)		
<b>One of the following:</b>		<b>3</b>
MKT 333	Consumer And Market Behavior	
MKT 335	Sales Management	
MKT 343	Marketing Research	
MKT 363	Global Marketing	
MKT elective (at 300 level or above)		
<b>One of the following:</b>		<b>3</b>
ECO 479	Seminar in Economics	
ECO 528	International Economic Development	
JPS 470	Poverty in America	
PLS 435	Global Poverty and Development	
PLS 481	Poverty, Development and Public Policy	
Elective - 3 credits from any department in the University chosen in consultation with an ENT faculty member and approved by Dept Chair.		
Total Credits		18

## Bioscience Entrepreneurship Minor

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 minor is only available to students who are not in the Heider College of Business.

## Minor in Bioscience Entrepreneurship Requirements: 18 Credits

ECO 203	Introductory Microeconomics	3
MKT 319	Principles of Marketing	3
ENT 411	Finance for Entrepreneurial Ventures	3
ENT 418	Bioscience Technology Commercialization	3
ENT 473	Venture Creation and Development	3
Elective		3
Select 3 credits from any department in the University chosen in consultation with an ENT faculty member and approved by Department Chair.		3
<hr/> Total Credits		21

## Social Entrepreneurship Minor

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. This minor is only available to students who are not in the Heider College of Business.

## Minor in Social Entrepreneurship Requirements: 18 Credits

ECO 203	Introductory Microeconomics	3
MKT 319	Principles of Marketing	3
ENT 311	Innovation and Creativity	3
ENT 411	Finance for Entrepreneurial Ventures	3
ENT 473	Venture Creation and Development	3
<b>One of the following:</b>		3
ENT 366	Entrepreneurship Internship	
ENT 451	Vocation of the Business Leader	
ENT 475	Entrepreneurship Incubator	
ENT 551	Sustainable Enterprise and Social Entrepreneurship	
ENT 555	Renewable Energy Strategy	
ENT elective (at 300 level or above)		
<hr/> Total Credits		18

## 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 Heider College of Business. Ninety-six semester hours are three-fourths of the total required for a degree from the Heider College of Business.

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 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 15 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

Fall		Credits
ENG 150	Contemporary Composition:College Composition	3
RSP 103	An Introduction to the Culture of Collegiate Life	1
MTH 141	Applied Calculus	3
Christian Tradition course (THL 110-113)		3
PSY 111	Introductory Psychology	3
Social Science (IVE) <sup>1</sup>		3
<b>Term Credits</b>		<b>16</b>
<b>Spring</b>		
Natural Science (IVC) <sup>1</sup>		4

ACC 201	Introduction To Financial Accounting	3
HIS 101	The Modern Western World	3
MTH 201	Applied Mathematics	3
PHL 107	Critical And Historical Introduction To Philosophy	3
	<b>Term Credits</b>	<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
ACC 202	Introduction To Managerial Accounting	3
BUS 229	Statistical Analysis	4
COM 152	Civic Engagement through Public Communication	3
ECO 203	Introductory Microeconomics	3
Scriptural Theology 200 level or above <sup>2</sup>		3
	<b>Term Credits</b>	<b>16</b>
<b>Spring</b>		
BIA 253	Management Information Systems	3
BUS 201	Legal Environment of Business	3
ECO 205	Introductory Macroeconomics	3
PHL 250	Philosophical Foundations For Ethical Understanding	3
Non-restrictive Elective (VIIC) <sup>1</sup>		3
ENG 120 or ENG 121	World Literature I or World Literature II	3
	<b>Term Credits</b>	<b>18</b>
<b>Junior</b>		
<b>Fall</b>		
BUS 356	Business Ethics	3
FIN 301	Managerial Finance	3
MKT 319	Principles of Marketing	3
MGT 301	Managerial Process And Organizational Behavior	3
COM 314 or ENG 251	Managerial Communication or Advanced Composition	3
	<b>Term Credits</b>	<b>15</b>
<b>Spring</b>		
BUS 471	Strategic Management	3

MGT 385	Production And Operations Management	3
International Business Elective (IIIB) <sup>1</sup>		3
Business Elective (VIIB) <sup>1</sup>		3
Business Elective (VIIB) <sup>1</sup>		3
	<b>Term Credits</b>	<b>15</b>
Total Credits:		96

<sup>1</sup> Refer to General Curriculum

<sup>2</sup> Except THL 250 Theological Foundations for Ethical Understanding

## **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.

## **Graduate Study**

### **Master of Business Administration**

The Heider College of Business offers, through the Graduate School, an evening and online MBA degree designed to provide a general management education that focuses on developing values-based leaders. The MBA curriculum allows graduate students to customize their classes to best fit their skills, competencies, and career goals. The MBA 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, business intelligence and analysis, accounting, and leadership;
- Professional classes in cutting-edge business skills taught by leading business practitioners.

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

The Heider 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/ MBA, MBA/Doctor of Pharmacy, MBA/Juris Doctor, MBA/Master of Science in Negotiation and Dispute Resolution, and MBA/Master of Arts in International Relations degree programs. Candidates for these combined programs must make separate application to, and be independently accepted by the Heider 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 Business Intelligence and Analytics

The Heider College of Business offers, through the Graduate School, a Master of Science in Business Intelligence and Analytics degree. The MS-BIA degree provides a creative synergy between technology and management and is designed to meet the demands of a constantly evolving business. The MS-BIA curriculum consists of 33 credit hours beyond the prerequisite courses and is available only on campus in the evenings. Applicants with an undergraduate degree in any discipline can pursue the MS-BIA degree, providing they have satisfactorily completed a computer programming course or have demonstrated programming experience and a statistics course.

The Heider College of Business offers a combined Master of Business Administration/Master of Science in Business Intelligence and Analytics dual degree program. This combined evening program enables students to earn both the MBA and MS-BIA degrees in a streamlined 48-credit-hour program in considerably less time than if the two degrees were earned separately.

## Master of Security and Portfolio Management

The Heider College of Business offers, through the Graduate School, both an evening and online program leading to a Master of Security Analysis and Portfolio Management degree. The MSAPM degree is designed to prepare students for advanced security analysis and portfolio management guided by a Code of Ethics and Standards of Professional Conduct. This degree program uses as its foundation the curriculum of the Chartered Financial Analyst (CFA)<sup>®</sup> program<sup>1</sup>. 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 MSAPM program will have the knowledge base to sit for each of the three levels of CFA exams but are not required to do so. More information on the CFA program is available at [www.cfainstitute.org](http://www.cfainstitute.org). The MSAPM curriculum consists of 30 credit hours beyond the prerequisite courses in accounting, economics, finance, and statistics. A combined Master of Business Administration/MSAPM evening and online program consisting of 48 credit hours is also available.

Applicants with an undergraduate degree in any discipline can pursue the MBA/MSAPM degree. Individuals with strong analytical skills are especially encouraged to apply.

<sup>1</sup> CFA, CFA Program and Body of Knowledge are trademarks owned by the CFA Institute.

## Master of Accountancy

The Heider College of Business offers, through the Graduate School, a Master of Accountancy degree that is more integrative and intensive than undergraduate education and more in depth than is found in a MBA program with a concentration in accounting. This 33 credit hour program is designed in a manner that fulfills the educational goals of the student, as well as meeting the requirements to sit for the CPA exam in any state having the 150-hour requirement. In addition to completing the required course work, students will also engage in two required co-curricular activities. The MAC courses are only offered in the evening

Applicants for admission to the MAC program must have a baccalaureate degree with a major in accounting from an accredited institution or an undergraduate degree in business from an accredited institution *and* the equivalent of Intermediate Accounting I, Managerial Accounting for Decision-Making, Principles of Taxation, Auditing and Accounting Information Systems. The Accounting program is accredited by the Accounting Accreditation Committee of the AACSB.

# College of Nursing

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The College of Nursing offers two pathways 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 curricula are also offered on the satellite campus in Hastings, Nebraska. Selected courses or classes in both pathways are delivered through distance learning between Omaha and Hastings. The nursing curricula offer 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 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 curricula, students are eligible to take the Registered Nurse (RN) licensure examination (NCLEX-RN). The program also establishes the foundation for graduate study in nursing.

Complete information for all programs can be obtained by contacting the College of Nursing's Office of Student Affairs at 402.280.2067 or 800.544.5071 (toll free).

## Statement of Goals

Creighton University offers a value centered education grounded in the Ignatian Values with emphasis on *Cura Personalis*, *Finding God in all things*, *Faith and Justice*, and *Women and Men for and with others*.

The College 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 College 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 College 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. Nurses use 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 College's belief that learning is a lifelong endeavor, completion of either of the two curriculum pathways provides a foundation for advanced study at the graduate level.

Completion of either of the two undergraduate curriculum pathways 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)

## Courses

### **NUR 116. Introduction to Professional Nursing. 1 credit. SP**

NUR 116 introduces concepts central to the role of the baccalaureate prepared registered nurse. The course incorporates information related to current nursing practice roles including those of nursing students, nursing specialties, advanced practice nursing, and interprofessional roles. Students will be introduced to professional practice standards and the essential competencies associated with professional nursing.

### **NUR 223. Nutrition. 2 credits. FA**

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. 2 credits. SP, SU**

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 and BMS 303; CO: NUR 226 and NUR 252. Department permission required for summer enrollers and non-nursing majors.

**NUR 226. Health Assessment Practicum. 1 credit. SP, SU**

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 credits. FA**

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. 3 credits. SP, SU**

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: Admission to ANC program or BMS 111, BMS 303, CHM 111, and MIC 141. CO: NUR 224 and NUR 226; P or CO: CHM 112 and CHM 113. Department permission required for summer enrollers and non-nursing majors.

**NUR 255. Safety/Quality in Care Management Lab I. 1 credit. SP**

NUR 255 teaches foundational nursing and interprofessional concepts, principles, and skills that promote quality and safety outcomes in health care management. This course incorporates competencies from Quality Safety Education for Nursing (QSEN), Interprofessional Education Collaborative (IPEC), and Institute of Medicine (IOM) to help students develop affective, cognitive, and psychomotor skills required as members of the health care team. Students will participate in simulations, lab, and seminar experiences. P: NUR 223 and NUR 228; CO: NUR 224, NUR 226 and NUR 252. P or CO: CHM 112 and CHM 113.

**NUR 288. Health Assessment Across the Lifespan. 2 credits.**

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 ANC program: CO: NUR 289.

**NUR 289. Health Assessment Practicum. 1 credit.**

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 I:Concepts for Health Promotion and Outcomes Improvement. 5-6 credits.**

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 I. 5 credits.**

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 credits. FA**

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 or CO: NUR 252.

**NUR 351. Care Management and Outcomes Improvement I. 5 credits. FA**

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: THL 250/PHL 250, NUR 255, NUR 224, NUR 226, NUR 252; CO: NUR 341, NUR 352, NUR 353.

**NUR 352. Care Management and Outcomes Practicum I. 4 credits. FA**

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 credits. FA**

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 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 255, NUR 224, NUR 226, NUR 252.

**NUR 354. Power, Politics, And Policy In Health Care. 2 credits. SP**

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 355. Safety/Quality in Care Management Lab II. 1 credit. FA**

NUR 355 teaches advanced nursing and interprofessional concepts, principles, and skills that promote quality and safety outcomes in health care management. This course incorporates competencies from Quality and Safety Education for Nurses (QSEN), Interprofessional Education Collaborative (IPEC), and the Institute of Medicine (IOM) to help students develop the affective, cognitive, and psychomotor skills required as a member of the health care team. P: NUR 255, NUR 224, NUR 226, and NUR 252; CO: NUR 351, NUR 352, and NUR 353.

**NUR 371. Care Management and Outcomes Improvement II. 5 credits. SP**

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, NUR 351, NUR 352, NUR 353, and NUR 355; CO: NUR 372, NUR 375, and NUR 377.

**NUR 372. Care Management and Outcomes Improvement Practicum II. 5 credits. SP**

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 375. Safety/Quality in Care Management Lab III. 1 credit. SP**

NUR 375 engages students in the care management process through application of nursing and interprofessional concepts, principles, and skills that promote quality and safety outcomes in health care management. This course incorporates competencies from Quality and Safety Education for Nurses (QSEN), Interprofessional Education Collaborative (IPEC), and the Institute of Medicine (IOM) to help students develop the affective, cognitive, and psychomotor skills required as a member of the health care team. P: NUR 351, NUR 352, NUR 353, and NUR 355; CO: NUR 371, NUR 372, and NUR 377.

**NUR 377. Research and Evidence-Based Nursing Practice. 3 credits. SP**

NUR 377 addresses the development of beginning level skills in research utilization and critiquing health care research for purposes of 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: Statistics; CO: NUR 371.

**NUR 381. Care Management of Populations. 2 credits.**

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, NUR 288, NUR 289, NUR 290, NUR 291, NUR 341. CO: NUR 382, NUR 386, NUR 390, NUR 391, NUR 394.

**NUR 382. Care Management of Populations Practicum. 1 credit.**

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 credits.**

NUR 386 introduces students to research and research utilization processes as they apply to evidence-based practice. The steps of the research process and research utilization process are applied to clinical problems. Ethical issues related to the research process are discussed. Students critique both qualitative and quantitative research literature. Emphasis is placed on the use of evidence to improve the quality of care. Advances in computer technology and application to education, communication, research and clinical practice are introduced. P: NUR 252, NUR 288, NUR 289, NUR 290, NUR 291, NUR 341; CO: NUR 381, NUR 382, NUR 390, NUR 391.

**NUR 390. Care Management and Outcomes Improvement II. 6 credits.**

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, NUR 288, NUR 289, NUR 290, NUR 291, NUR 341. CO: NUR 381, NUR 382, NUR 386, NUR 391, NUR 394.

**NUR 391. Care Management and Outcomes Improvement Practicum II. 6 credits.**

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 393. Research And Scientific Inquiry II. 2 credits.**

Nursing theories, research designs and ethical issues related to research are discussed. The steps of the research utilization process are applied to a clinical problem. Students critique the professional literature and write a review. Emphasis is placed on the use of research in total quality improvement. P: NUR 252, 288, 289, 290, 291, 293, 294. CO: NUR 341, 390, 391, 394.

**NUR 394. Health Care Management and Leadership. 2 credits.**

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, NUR 391.

**NUR 471. Care Management Processes for Episodic and Chronic Health Alterations III. 5 credits. FA**

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: NUR 371, NUR 372, NUR 375, and NUR 377; CO: NUR 472, NUR 473, and NUR 474.

**NUR 472. Care Management and Outcomes Improvement Practicum III. 5 credits. FA**

NUR 472 incorporates practicum experiences in a variety of settings 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 credits. FA**

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: NUR 371, NUR 372, NUR 375, and NUR 377; CO: NUR 471.

**NUR 474. Applied Nursing Ethics. 3 credits. FA**

NUR 474 identifies ethical issues in health care and distinguishes carefully among salient features of these problems' moral, social, legal, and political dimensions. Emphasis is placed on development of skill in conceptual analysis, critical thinking, moral reasoning, argumentation, and developing an ability to consider and articulate objections to a range of views. P: THL 205/PHL 250, NUR 371, NUR 372, and NUR 377.

**NUR 481. Transition to Professional Nursing. 2 credits. SP**

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, NUR 472, NUR 473, and NUR 474; CO: NUR 482 and NUR 485.

**NUR 482. Care Management and Outcomes Improvement Capstone Practicum. 10 credits. SP (Credits change to 8 effective 2017-2018)**

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. CO: NUR 481.

**NUR 485. Policy and Advocacy in Health Care. 2 credits. FA, SP (Offered FA for Accelerated BSN Students;)**

NUR 485 focuses on understanding the influence of regulatory, financial, and healthcare policies on professional nursing practice. The course emphasizes professional nursing responsibility in advocating for access, affordability, equity, and social justice for diverse populations as organizational, local, national, and global healthcare policies are formulated. Advocacy, activism, and leadership will be considered across the spheres of influence: workplace/workforce, government, associations and advocacy groups, and the community. CO: NUR 481 and NUR 482 (traditional BSN students) or NUR 496 and NUR 497 (accelerated BSN students).

**NUR 491. Spanish for Health Care. 2 credits. FA, SU**

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 492. Transition to a Values Based Profession. 2 credits.**

NUR 492 is designed to facilitate transition from the student role to a values-based professional nursing role. The content focuses on the reciprocal ethical relationships between society, health care organizations, and the nursing profession. This course provides opportunities for students to appraise how professional nurses can consistently demonstrate core values related to nursing, care management, and health care. Political, legal, economic, ethical, social, cultural, and technologic influences on health care and professional nursing practice are addressed. P: NUR 496, NUR 497, and NUR 485; CO: NUR 498.

**NUR 493. Dissemination of Research and Evidence-Based Knowledge. 1-2 credits.**

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 credits.**

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 495. Directed Independent Study. 1-3 credits.**

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 496. Care Management and Outcomes Improvement III. 4 credits.**

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, NUR 382, NUR 386, NUR 390, NUR 391, NUR 394; CO: NUR 494 and NUR 497.

**NUR 497. Care Management and Outcomes Improvement Practicum III. 4 credits.**

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. Care Management and Outcomes Improvement Capstone Practicum. 7 credits.**

NUR 498 provides students with opportunities to synthesize professional nursing concepts and skills in a selected clinical setting with an emphasis on care management and clinical outcomes 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. Graded Satisfactory/Unsatisfactory. P: NUR 496, NUR 497, and NUR 485; CO: NUR 492.

## Traditional Nursing

The traditional baccalaureate curriculum is designed for recent high school graduates or transfer students and requires eight (8) semester of full-time study at either the Omaha or Hastings campus. The College of Nursing (CON) has variations of the traditional 4-year Plan of Study to accommodate students with various interests, including those related to Reserve Officers Training Corp (ROTC) and study abroad.

During the freshman year, students in the Traditional Curriculum are enrolled in the Ratio Studiorum Program (RSP) course, an introduction to professional nursing course, and the foundational level courses of the Magis Common Core Curriculum. During the sophomore year, students are offered nursing courses in health assessment, pathophysiology, lifespan development, nutrition, and an introductory course in safety and quality in care management. Additionally, students complete courses at the explorations level of the Magis Common Core Curriculum. Nursing courses at

the junior and senior level build upon the courses offered at the freshman and sophomore level. During their junior and senior years, traditional students are enrolled in nursing courses, including practicum experiences, focusing on outcomes-oriented, evidence-based nursing practice to enhance quality and safety of care delivery. The College of Nursing provides the instruction for the practicum experiences in collaboration with cooperating agencies in a variety of hospital and community-based agencies to enrich the learning opportunities. Emphasis is placed on using the care management model as a framework for achieving optimal clinical, quality, and cost-effective outcomes through health promotion, protection, maintenance, and restoration of altered health states. The senior year culminates in a capstone practicum designed to provide a concentrated experience in complex, collaborative nursing care management under the supervision of a nurse preceptor.

## Admission

High School graduates who are first time freshmen wishing to pursue the Traditional nursing curriculum 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 this Catalog under "Admissions (p. 23)."

The College of Nursing recommends that these students pursue a strong college preparation course of study in high school, which would include courses in science and math. High school chemistry or its equivalent is required for admission into the College of Nursing. An ACT composite score of at least 22 or SAT Verbal score of 500 is recommended.

Transfer students from non-nursing and nursing majors may be admitted on a space available basis. 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 College of Nursing's Undergraduate Admissions and Promotions Committee and/or Assistant Dean for Student Affairs.

Admission to the College 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 applicants' 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. Applicants must complete the "Safety and Technical Standards" form attesting to their ability to meet these requirements.

## Other Requirements for Enrollment

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).

## **Advanced Placement, Transfer and Other Credit**

The policies of the College of Arts and Sciences governing the granting of Advanced Placement (AP), transfer or other credit apply to students in the College of Nursing except when for selected nursing courses.

## **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 grade of "C" must be earned in all required nursing courses and nursing prerequisites.

## **Academic Standing**

The College of Nursing (CON) is consistent with the Creighton University's policy on academic standing in that a cumulative grade point average (GPA) of at least 2.00 is required for graduation. The average shall be computed only on the basis of all work attempted at Creighton.

The College of Nursing's Academic Probation and Dismissal policies are as follows:

1. Any nursing student whose GPA is below 2.20 at the end of any semester will be placed on Academic Probation.
2. Whenever a student's GPA falls below 2.20, the student may be advised not to carry a full schedule of studies and extracurricular activities.
3. Any freshman whose GPA is not at least 1.75 at the end of the freshman year may be dismissed 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 at that time.
4. Freshman students who do not attain a 2.20 GPA at midterm in the fall semester and were not enrolled in EDGE 120 are required to register for EDGE 130 during the spring semester. If the final fall semester GPA is 2.20 or higher, the scheduled EDGE 130 may be dropped. The student is still encouraged to seek academic assistance from the Academic Success Coordinator, Counseling Center, or Student Support Services.
5. Freshman students who took EDGE 120 and did not attain a 2.20 GPA during the fall semester are required to register for the Success Seminar through the EDGE Office during the spring semester.
6. Any student whose GPA is not at least 2.00 at the end of the sophomore year or at the end of any subsequent semester may be dismissed from the University for poor scholarship.
7. Any student who has been dismissed 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.

## **Traditional Baccalaureate Curriculum Plan - Omaha and Hastings Campuses**

The Creighton University Magis Common Core Curriculum requirements are a minimum of 35 semester hours. The total number of Magis Common Core Curriculum hours that students enrolled in

the College of Nursing Traditional Curriculum will take is 38 hours. This difference is attributed to the following:

1. The Magis Common Core Curriculum requirement of Explorations:Understanding Natural Sciences is 2 credit hours. The College of Nursing requires students to take CHM 111 (4 credits) to meet the outcomes of this Core component, and provide the foundation for subsequent courses.
2. The Magis Common Core Curriculum requirement of Integrations is 3 credit hours. The College of Nursing requires students to take NUR 492 Policy and Advocacy in Health Care (2 credits), and NUR 481 Transition to Professional Practice (2 credits) to meet the outcomes of this Core component.

Entering freshman students to Creighton University on the Hastings campus follow a modified version of the Magis Common Core Curriculum and take core courses at Hastings College.

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 credit.

Transfer students on the Hastings campus follow the traditional baccalaureate curriculum for transfer students rather than the curriculum for Hastings freshman taking core classes at Hastings College.

## Traditional Nursing Curriculum (128 credits)

### Magis Common Core Courses (minimum of 35 hours)

#### Foundations Level

Contemporary Composition - ENG 15x	3
Critical Issues in Human Inquiry - Dept 17x	3
Oral Communication - COM 101	1
Mathematical Reasoning - MTH 205	2
Philosophical Ideas - PHL 11x	3
The Christian Tradition - THL 11x	3
<b>Total Credits</b>	<b>15</b>

#### Explorations Level

Ethics - THL/PHL 25x	3
Global Perspectives in History - HIS 1xx	3
Literature - ENG 2xx	3
The Biblical Tradition - THL 2xx	3
Understanding Natural Science - CHM 111	4
Understanding Social Science - PSY 201	3
<b>Total Credits</b>	<b>19</b>

*NOTE: All Foundations and Explorations Magis Common Core courses must be completed prior to Junior level nursing courses.*

**Integrations Level**

NUR 485	Policy and Advocacy in Health Care	2
NUR 481	Transition to Professional Nursing	2
Total Credits		4

**Designated Courses****Designated Ethics**

NUR 474	Applied Nursing Ethics	3
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**Designated Oral Communications**

NUR 353	Principles of Population-Based Health Care	3
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**Designated Statistical Reasoning**

PSY/MTH/SOC/ANT xxx		3
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**Designated Technology**

NUR 255	Safety/Quality in Care Management Lab I	1
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**Designated Written Communications**

NUR 371	Care Management and Outcomes Improvement II	5
Total Credits		15

**Nursing Prerequisites (in addition to Core)**

BMS 111	Basic Human Anatomy	4
BMS 303	Physiology	4
CHM 112	Fundamentals Of Biological Chemistry	3
CHM 113	Fundamentals Of Chemistry Laboratory	1
MIC 141	Microbiology	4
PSY 111	Introductory Psychology	3
Statistics		3
RSP 102	An Introduction to the Culture of College Life	1
IPE Elective		2-3
Total Credits		25-26

\*BMS 111, BMS 303, CHM 112, CHM 113, MIC 141, PSY 111, and Statistics are pre-requisite to nursing courses. Students must receive a "C" or better in each of these courses.

**Nursing Courses**

NUR 116	Introduction to Professional Nursing	1
NUR 223	Nutrition	2
NUR 228	Lifespan Development	3
NUR 224	Health Assessment	2
NUR 226	Health Assessment Practicum	1
NUR 252	Human Pathophysiology	3
NUR 255	Safety/Quality in Care Management Lab I	1

NUR 341	Nursing Management of Pharmacotherapy	3
NUR 351	Care Management and Outcomes Improvement I	5
NUR 352	Care Management and Outcomes Practicum I	4
NUR 353	Principles of Population-Based Health Care	3
NUR 355	Safety/Quality in Care Management Lab II	1
NUR 371	Care Management and Outcomes Improvement II	5
NUR 372	Care Management and Outcomes Improvement Practicum II	5
NUR 375	Safety/Quality in Care Management Lab III	1
NUR 377	Research and Evidence-Based Nursing Practice	3
NUR 471	Care Management Processes for Episodic and Chronic Health Alterations III	5
NUR 472	Care Management and Outcomes Improvement Practicum III	5
NUR 473	Leadership for Care Management	2
NUR 474	Applied Nursing Ethics	3
NUR 481	Transition to Professional Nursing	2
NUR 482	Care Management and Outcomes Improvement Capstone Practicum	10
NUR 485	Policy and Advocacy in Health Care	2
Total Credits		72

## Minors

Students in the College of Nursing may pursue a minor in other Colleges within the University. The minor is in addition to the BSN degree. Requirements of the minor are listed in each department's entry in the Catalog and websites. To apply for a minor, the student should contact the Assistant Dean of Student Affairs in the College of Nursing for appropriate consultation and referral.

## Accelerated Nursing Curriculum

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 College 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. A minimum of a 3.0 grade point average on a 4.0 scale.
  - c. Completion of prerequisite courses with a minimum of "C" (2.0) 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 College 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.
  - g. Evidence of 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) is required for all international applicants whose first language is not English or who have obtained a high school diploma or degree outside of the United States. Scores over 2 years old will not be accepted. The College of Nursing reserves the right to require students to re-take the exam. It is also at the discretion of the College of Nursing as to whether a TOEFL score is required of applicants who have earned a college degree from a United States University.
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.
  3. This school is authorized under Federal law to enroll nonimmigrant alien students. The ability to speak and write correct grammatical English is imperative. 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.

## Conditions of Enrollment

Certain conditions of must be met for enrollment into courses within the College of Nursing:

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. 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).

## 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, an applicant 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" (2.0) or above to be accepted for transfer to Creighton. All courses must come from an accredited college in order to qualify. If prerequisite courses are on the quarter system, they must be equivalent to the total semester hour credits as defined below.

*For Students Matriculating August 2014:*

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.

*For Students Matriculating January 2015:*

1. General Education (36 semester hours). These will be allocated from the liberal arts and sciences completed in previous baccalaureate degree.
2. Statistics course (3 semester hours)
3. 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).
4. **Theology and Ethics** (6 semester hours)
  - a. **Theology** (3 semester hours)
  - b. **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.
5. **Physical and Biological Sciences** (21-23 semester hours)
  - a. **Microbiology** (4 semester hours)
  - b. **Inorganic/General Chemistry** (3-4 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 human physiology course)

e. **Nutrition** (2-3 semester hours)

6. Science credits earned over 10 years ago will be individually evaluated.

7. A total number of 128 hours is required for graduation.

## Accelerated Nursing Curriculum (58 credits)

### For Students Matriculating Fall 2014:

#### First Semester

NUR 288	Health Assessment Across the Lifespan	2
NUR 289	Health Assessment Practicum	1
NUR 252	Human Pathophysiology	3
NUR 290	Care Management I: Concepts for Health Promotion and Outcomes Improvement	5
NUR 291	Care Management for Health Promotion And Outcomes Improvement Practicum I	5
NUR 341	Nursing Management of Pharmacotherapy	3
Total Credits		19

#### Second Semester

NUR 381	Care Management of Populations	2
NUR 382	Care Management of Populations Practicum	1
NUR 386	Research and Evidence-Based Knowledge for Care Management	3
NUR 390	Care Management and Outcomes Improvement II	6
NUR 391	Care Management and Outcomes Improvement Practicum II	6
NUR 394	Health Care Management and Leadership	2
Total Credits		20

#### Third Semester

NUR 493	Dissemination of Research and Evidence-Based Knowledge	1
NUR 494	Seminar in Professional Nursing	4
NUR 496	Care Management and Outcomes Improvement III	4
NUR 497	Care Management and Outcomes Improvement Practicum III	4
NUR 498	Care Management and Outcomes Improvement Capstone Practicum	7
Total Credits		20

## Accelerated Nursing Curriculum (58 credits)

### For Students Matriculating Spring 2015:

#### First Semester

NUR 288	Health Assessment Across the Lifespan	2
NUR 289	Health Assessment Practicum	1
NUR 252	Human Pathophysiology	3
NUR 290	Care Management I: Concepts for Health Promotion and Outcomes Improvement	5
NUR 291	Care Management for Health Promotion And Outcomes Improvement Practicum I	5
NUR 341	Nursing Management of Pharmacotherapy	3
Total Credits		19

#### Second Semester

NUR 381	Care Management of Populations	2
NUR 382	Care Management of Populations Practicum	1
NUR 386	Research and Evidence-Based Knowledge for Care Management	3
NUR 390	Care Management and Outcomes Improvement II	6
NUR 391	Care Management and Outcomes Improvement Practicum II	6
NUR 394	Health Care Management and Leadership	2
Total Credits		20

#### Third Semester

NUR 485	Policy and Advocacy in Health Care	2
NUR 492	Transition to a Values Based Profession	2
NUR 496	Care Management and Outcomes Improvement III	4
NUR 497	Care Management and Outcomes Improvement Practicum III	4
NUR 498	Care Management and Outcomes Improvement Capstone Practicum	7
Total Credits		19

# College of Professional Studies

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College of Professional Studies serves adult students, who seek to begin or complete an undergraduate degree or certificate program, or who want to take classes for personal enrichment or professional development.

## The Mission

In order to provide a values-centered education for its students in an atmosphere of concern for the individual, the College of Professional Studies participates in the Catholic and Jesuit mission of Creighton, extending the commitments and resources of the University beyond traditional academic boundaries.

## Admission

The minimum age for admission to the College of Professional Studies is normally 23 years. Students may take daytime, evening, or online 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 the College of Professional Studies.

## Tuition for Fall and Spring Evening Classes

Part-time College of Professional Studies 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 the College of Professional Studies (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 College of Professional Studies rate. Tuition in the Bachelor of Science in Leadership is \$412 per credit hour.

## 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 College of Professional Studies 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 (402.280.2707) or the College of Professional Studies (402.280.2424).

## Special Tuition for Post-Baccalaureate Elementary Education and Secondary Education Majors

Persons who hold a bachelors degree with at least a 2.50 GPA who are interested in becoming elementary or secondary teachers, are eligible for a 50 percent tuition discount for all major requirements. This discount may not be taken in addition to the regular College of Professional Studies discount. Students must be accepted into the major as well as accepted as certificate-seeking students to the University. Contact the College of Professional Studies 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 College of Professional Studies discount. An application for remission must be completed each semester. Contact the College of Professional Studies 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, Heider College of Business, and College of Nursing are eligible to take one day or evening undergraduate course on a space-available basis each semester for \$300 plus fees. Books and supplies are extra. Contact the College of Professional Studies at 402.280.2424 or 800.637.4279 for more information.

## 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. Students enrolled in *Accelerated* Creighton and degrees conferred by the College of Professional Studies are charged on a per credit basis even when enrolled for 12 hours or more; they pay part time fees.

## 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 veterans to pursue undergraduate higher education through the College of Professional Studies at little or no out of pocket cost.

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. See Student Financial Aid (p. 34) for more information.

## **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 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 the College of Professional Studies as a degree-seeking student and have official transcripts sent to the College of Professional Studies from all prior colleges or universities attended. Questions regarding veterans benefits should be directed to 402.280.4073.

## **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 veterans to pursue undergraduate higher education through the College of Professional Studies at little or no out of pocket cost.

## **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 College of Professional Studies 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 College of Professional Studies office, or by calling the Credit Union at 402.341.2121. Applications can also be made via the credit union's web site at [www.creightonfederal.org](http://www.creightonfederal.org) (<http://www.creightonfederal.org>).

## **Dean's Merit Awards**

Realizing that many academically strong, working adults with the desire to attend the College of Professional Studies—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 \$1000 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 cumulative 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 [creighton.edu/adultdegrees/tuitionfees/financialaid/index.php](http://creighton.edu/adultdegrees/tuitionfees/financialaid/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.

## **Associate Degrees**

Associate degrees are available to students enrolled in the College of Professional Studies 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 Degree Requirements: 64 Credits

<b>Magis Core Requirements</b>	20-21
<b>Foundations:</b>	
Contemporary Composition (3)	
Critical Issues in Human Inquiry (3)	
Oral Communication (1)	
Mathematical Reasoning (2)	
Philosophical Ideas (3)	
The Christian Tradition (3)	
<b>Explorations:</b>	
Understanding Natural Science (2)	
Understanding Social Science (3)	
Global Perspectives in History (3)	
Literature (3)	
Ethics (3)	
The Biblical Tradition (3)	
<b>Major Requirements</b>	25-31
See Major for specific requirements	
<b>Electives</b>	1-19
Select Electives to reach 64 credits	

### Associate in Arts Degrees

- Organizational Communication (p. 586)
- Theology (p. 586)

### Associate in Science Degrees

- Computer Science (p. 585)
- Mathematics (p. 586)

### Associate in Science in Emergency Medical Services

- Emergency Medical Services (p. 585)

# Computer Science A.S.

## A.S., Computer Science Requirements: 64 credits

<b>Magis Core Requirements</b>		20-21
<b>Major Requirements (24 credits)</b>		
CSC 221	Introduction to Programming	3
CSC 222	Object-Oriented Programming	3
CSC 321	Data Structures	3
CSC 414	Introduction To Computer Organization	3
CSC 421	Algorithm Design and Analysis	3
Select nine semester hours from 400-level or above CSC courses.		9
<b>Electives</b>		19-20
<b>Total Credits</b>		<b>63-65</b>

# Emergency Medical Services A.S. E.M.S.

## Associate in Science in Emergency Medical Services (A.S. E.M.S.): 69 Credits

<b>Magis Core Requirements</b>		20-21
<b>Major Requirements (49 credits)</b>		
EMS 101	Fundamentals Of Emergency Medical Services	4
EMS 301	Preparatory	5
EMS 403	Patient Assessment	3
EMS 405	Airway Management/Ventilation	1
EMS 407	Trauma Management	4
EMS 410	Medical Emergencies I: Respiratory	2
EMS 411	Special Considerations	3
EMS 412	Medical Emergencies II: Cardiac	5
EMS 413	Operations	2
EMS 414	Medical Emergencies III: NEAGR	5
EMS 415	Assessment Based Management	1
EMS 416	Medical Emergencies IV: THEIB	4
EMS 420	Clinical Practicum I	1
EMS 421	Field Practicum I	1
EMS 422	Clinical Practicum II	2
EMS 423	Field Practicum II	2
EMS 424	Clinical Practicum III	2
EMS 425	Field Practicum III	2
<b>Total Credits</b>		<b>69-70</b>

## Mathematics A.S.

### A.S., Mathematics Requirements: 64 credits

<b>Magis Core Requirements</b>		20-21
<b>Major Requirements (26 credits)</b>		
MTH 245	Calculus I	4
MTH 246	Calculus II	4
MTH 310	Fundamentals of Mathematics	3
MTH 347	Calculus III	3
MTH 529	Linear Algebra	3
MTH 545	Differential Equations	3
MTH 581	Modern Algebra I	3
MTH 591	Analysis I	3
<b>Electives</b>		17-18
<hr/> Total Credits		63-65

## Organizational Communication Major A.A.

### A.A., Organizational Communication Requirements: 64 Credits

<b>Magis Core Requirements</b>		20-21
<b>Major Requirements (33 credits)</b>		
COM 152	Civic Engagement through Public Communication	3
COM 200	Communication Practices	3
COM 300	Communication Research Methods	3
COM 359	Rhetoric and Public Culture	3
COM 360	Organizational Communication Theories	3
COM 361	Interpersonal Communication	3
Select 15 hours upper-division COM courses.		15
<b>Electives</b>		10-11
Select electives to reach total of 64 credits		
<hr/> Total Credits		63-65

## Theology A.A.

### A.A., Theology Requirements: 64 Credits

<b>Magis Core Requirements</b>		20-21
<b>Major Requirements (30 credits)</b>		
Select one course in Old Testament		3
Select one course in New Testament		3

THL 250	Theological Foundations for Ethical Understanding	3
THL 544	Christian Celebration: The Liturgical Year	3
THL 561	Finding God In Daily Life: Prayer And Discernment	3
Select two courses from the following:		6
THL 325	Catholicism: Creed and Question	
THL 335	Jesus Christ: Yesterday and Today	
THL 339	Theology of the Church and Sacraments	
Select three 300-500 level courses chosen in consultation with advisor.		9
<b>Electives</b>		13-14
Select electives to reach 64 credits		
Total Credits		63-65

## Bachelor's Degree Programs

Students may pursue a variety of degree programs through the College of Professional Studies. Refer to the Majors tab for the list.

### Degree Requirements

All bachelor's degrees offered through the College of Professional Studies must meet the following requirements:

- a minimum of 128 credit hours, including at least 48 credit hours in courses numbered 300 or above
- a minimum of 48 credit hours must be completed at Creighton University, with 32 of the final 48 completed in residence at Creighton
- 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 Magis Common Core Curriculum and the Magis College of Professional Studies Core Curriculum
- completion of all major requirements, with at least a 2.00 in the minimum requirements of the major

### Magis Common Core Curriculum

The Magis Core Curriculum applies to students matriculating as an undergraduate degree-seeking student, Fall 2014 and after. The Magis University Common Core Curriculum is organized into four levels, with various Components in each level. Each College may designate additional College Core Components. Students must complete the designated number of credits in each Common Core and College Core categories using approved courses. The most up-to-date list of approved courses is available on the NEST Schedule of Classes and Course Catalog.

Foundations	Explorations	Integrations	Designated Courses (1 course each)
Contemporary Composition (3 credits)	Understanding Natural Science (2 credits)	Intersections (3 credits)	Designated Ethics

Critical Issues in Human Inquiry (3 credits)	Understanding Social Science (3 credits)	Designated Oral Communications
Oral Communication (1 credit)	Global Perspectives in History (3 credits)	Designated Written Communication
Mathematical Reasoning (2 credits)	Literature (3 credits)	Designated Statistical Reasoning
Philosophical Ideas (3 credits)	Ethics (3 credits)	Designated Technology
The Christian Tradition (3 credits)	The Biblical Tradition (3 credits)	

## Magis College of Professional Studies Core Curriculum

In addition to the Common Core, all students earning a bachelor's degree through the College of Professional Studies will also complete an **Integrations** courses: **What Really Matters: Meaning in Work and Life**.

## Majors

The following degree programs are available for students in the College of Professional Studies (p. 580):

- Leadership (Bachelor of Science) (p. 604). This major, administered and conferred by the College of Professional Studies, is offered online, in accelerated 8-week terms. The ability to earn credit from prior learning assessment is exclusive to this program.
- Healthy Lifestyle Management (Bachelor of Arts) (<http://catalog.creighton.edu/undergraduate/professional-studies/bachelors-degree/healthy-lifestyle-management-ba>). This major beginning in January 2015 is jointly administered by the College of Professional Studies and the College of Arts and Sciences, and is offered online, in accelerated 8-week terms.
- Communication Studies (Bachelor of Arts) (p. 589). This major is part of *Accelerated* Creighton, offered in 8-week, on campus courses.
- English (Bachelor of Arts) (p. 602). This major is part of *Accelerated* Creighton, offered in 8-week, on campus courses.
- Health Administration and Policy (Bachelor of Science) (p. 603). This major is part of *Accelerated* Creighton, offered in 8-week, on campus courses.
- Any major areas of study in the College of Arts and Sciences (p. 124) or the Heider College of Business (p. 513).
- Bachelor of Science in Emergency Medical Services (p. 594). This degree is jointly offered through the School of Pharmacy and Health Professions and the College of Professional Studies.
- Bachelor of Science in Dental Hygiene (p. 589). This degree is offered in cooperation with the School of Dentistry.

# Communication Studies: Organizational Communication Track (B.A.)

## Specific Requirements for Admission to the Communication Studies Major/Certificate

COM 152 Civic Engagement through Public Communication and overall GPA of 2.25.

## B. A., Major in Communication Studies: Organizational Communication Track: 36 Credits

COM 200	Communication Practices	3
COM 300	Communication Research Methods	3
COM 359	Rhetoric and Public Culture	3
COM 360	Organizational Communication Theories	3
COM 361	Interpersonal Communication	3
COM 460	Historical and Contemporary Perspectives on Organizational Communication	3
COM 463	Communication Consulting	3
COM 490	Communication and Community	3
Select twelve elective hours in COM courses numbered 300-level and above.		12
Total Credits		36

## Dental Hygiene

Creighton University School of Dentistry, through the College of Professional Studies, 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 the Iowa Western Community College 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. 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 the College of Professional Studies 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.

## Major in Dental Hygiene

- B.S., Dental Hygiene (p. 592)

### **GDH 232. Oral Hygiene. 1 credit. SP**

An initial introduction of the students to the treatment of patients in a clinical setting. Principles of oral hygiene, infection control, record keeping, and oral examination are applied to patient care. C.

### **GDS 113. Dental Anatomy Lecture. 2 credits. FA**

The student is taught nomenclature, chronology, and methods of designation of human teeth. Form, size and contour of teeth, including external and internal anatomy of the permanent and primary dentitions, intertooth relationships, and occlusion are presented in detail. 1R, 16W.

### **GDS 115. Dental Materials Lecture. 2 credits. FA**

This course presents the fundamental principles of dental materials science as it applies to clinical dentistry including an understanding of the basis for laboratory and clinical use. The rationale for materials selection, as dictated by clinical procedure and product comparison, will also be presented. 1R, 16W.

### **GDS 116. Dental materials Laboratory. 2 credits. FA**

Specific dental laboratory projects will be accomplished to allow the student to become familiar with the handling characteristics of the dental materials presented in lecture. This will help to ensure competent use of commonly used dental materials at the clinical level. These exercises are also designed to improve manual dexterity and eye-hand coordination. 2L, 16W.

### **GDS 117. Introduction to Conduct of Research. 1 credit.**

This course will involve the completion of CITI web-based modules, identification of research project mentor, identification of research project topic and completion of all project research plan and IRB submission documents in draft form.

### **GDS 135. Dental Materials Lecture. 4 credits. SP**

Composition and properties of the materials used in dentistry. Basic information on the design of preparatory work necessary for the mouth incident to the reception of these materials. A group research project designed to lead to a table clinic presentation will be conducted under the guidance of a faculty mentor. 2R, 16W.

**GDS 136. Dental Materials Laboratory. 2 credits. SP**

Application of materials used in dentistry with an emphasis on the treatment of single surface tooth lesions. 2L, 16W.

**GDS 235. Oral Pathology. 8 credits. SP**

This course is designed to present etiologic, basic histopathologic, and clinical information of diseases that commonly manifest in the oral cavity and the head and neck regions. Prognosis and treatment of these diseases will be stressed. Heavy emphasis will be placed on clinical recognition and differential diagnoses. 4R, 16W.

**ORB 113. Histology. 8 credits. FA**

Microscopic anatomy of normal mammalian and/or human tissues and organs. Light and electron microscopic aspects of the tissues and organs are studied. The developmental anatomy of the organ systems will also be presented. 3R, 3L, 16W (Split classes for laboratory).

**ORB 115. General Gross Anatomy Lecture. 10 credits. FA**

Basic instruction in the gross anatomy of the upper extremity, thorax, and abdomen. This course is taught by lecture, laboratory dissection, models, radiographic images, and various multimedia resources. 2R, 6L, 16W (Split classes for laboratory).

**ORB 131. Head and Neck Anatomy. 9 credits. SP**

Basic instruction in the Gross Anatomy of the Head and Neck. Special emphasis is placed on the clinical application of anatomy to the various dental disciplines. Such topics include the anatomy and pathology of the TMJ and distribution of the trigeminal and facial nerves with associated applied anatomy. This course is taught by lecture, laboratory dissection, models, radiographic images (x-rays, MRIs, and CTs), and various multimedia resources. 2R, 6L, 8W; 2R, 3L, 4W (Split classes for laboratory).

**ORB 133. Oral Histology and Embryology. 8 credits. SP**

Microscopic and developmental anatomy of the normal cells, tissues and organs of the oral cavity with stress on teeth and related tissues. Emphasis will be given to the growth and development of the head and neck. Genetic effects will be presented. 2R, 3L, 8W; 3R, 3L, 8W (Split classes for laboratory).

**ORB 137. Nutrition. 2 credits. SP**

Basic instruction in nutrition, including nutrients for growth and development of oral tissues. Provides knowledge of balanced nutrition and measurement of dietary factors as related to clinical prevention and health care. Focuses on specific nutrition issues of dental patients and oral conditions with applications to clinical dental practice. 1R, 16W.

**ORB 311. Dental Pharmacology I. 4 credits. FA**

Lecturers and discussions on pharmacological principles and specific drug classes. Individual drug classes include anesthetics, analgesics, sedative hypnotics, autonomic drugs, cardiovascular drugs, and central nervous system pharmacology. The course runs concurrently with the Pain Control course which also deals with drugs related to pain control. 1R, 8W (Sophomore year); 2R, 16W.

**ORB 331. Dental Pharmacology II. 3 credits. SP**

Lecturers and case presentations with continuing coverage of basic pharmacology and therapeutic applications. Individual drug classes include, antimicrobial drugs, endocrine pharmacology, autacoid pharmacology, drug abuse, drug-drug interactions, and toxicology. Prescription writing is also presented. 2R, 8W; 1R, 8W.

**PER 213. Periodontology Lecture. 2 credits. FA**

This course presents the ultra structural features of the healthy periodontium and contrasts those with that found in periodontal diseases. The student is introduced to the diagnosis of periodontal diseases as well as the relevant etiology and contributory factors. 1R, 16W.

**PER 233. Periodontology Lecture. 2 credits. SP**

This course presents the integration of treatments of periodontal diseases in the framework of treatment planning for dental and oral issues in general. The student is introduced to case-based analysis and treatment planning. 1R, 16W.

**PER 313. Periodontology Lecture. 2 credits. FA**

This course reviews National Board Part 2 issues, including the etiology, contributory factors, and diagnosis of bacterial plaque induced periodontics. This course also introduces the student to the various applications of periodontal surgeries. 1R, 16W.

## B.S., Dental Hygiene

Degree requirements are listed below. Areas marked with (\*) must be taken at Creighton.

Areas of Study	Semester Hours
Dental Hygiene	64
Theology, Philosophy, Ethics* (Core A)	6
Cultures, Ideas and Civilizations* (Core B)	9
Natural Science (Core C)	16
Social and Behavioral Sciences (Core D)	6
Skills* (3 hrs. at Creighton) (Core E)	9
Dental Science* (Core F)	18
Total Semester Hours	128

**Core A: Theology, Philosophy, Ethics - 6 Hours**

THL 250	Theological Foundations for Ethical Understanding	3
or PHL 250	Philosophical Foundations For Ethical Understanding	
Select one of the following:		3
Christian Tradition (THL 110, THL 111, THL 112, THL 113)		
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: The Community of John	
THL 212	Paul and His Legacy	

**Core B: Cultures/Ideas/Civilizations - 9 hours**

PHL 107	Critical And Historical Introduction To Philosophy	3
Select one of the following:		3

HIS 101	The Modern Western 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	
ENG 120	World Literature I	3
or ENG 121	World Literature II	
<b>Core C: Natural Sciences - 16 hours (Prerequisites for Iowa Western Community College Associate's Degree in Dental Hygiene Program)</b>		
BMS 111	Basic Human Anatomy	4
BMS 303	Physiology	4
BMS 301	Biochemistry	3
MIC 141	Microbiology	4
<b>Core D: Social and Behavioral Sciences - 6 hours</b>		
Select one course from any two different subject areas:		6
ANT 111	Introduction to Anthropology: Human and Cultural Diversity	
ECO 203	Introductory Microeconomics	
PLS 101	Introduction to Politics	
PLS 105	Introduction to World Politics	
PLS 121	American Government And Politics	
PLS 215	Comparative Political Systems	
SOC 101	Introduction to Sociology: Self and Society	
SOC 102	Introduction to Sociology: Social Problems	
PSY 111	Introductory Psychology	
<b>Core E: Skills - 9 hours</b>		
ENG 150	Contemporary Composition:College Composition	3
Select six credits from the following:		6
COM 152	Civic Engagement through Public Communication	
MTH 201	Applied Mathematics	
MTH 245	Calculus I	
PHA 444	Biostatistics and Research Design	
<b>Core F: Dental Science - 18 hours</b>		
Select 18 credits from the following:		18
CPD 111	Interpersonal Relationships And Communication	
CPD 115	History of Dentistry	
CPD 132	Community Dentistry Field Experience	
CPD 431	Ethics In The Practice Of Dentistry II	
CPD 433	Financial Planning And Jurisprudence	
GDS 115	Dental Materials Lecture	
GDS 116	Dental materials Laboratory	

GDS 135	Dental Materials Lecture
GDS 136	Dental Materials Laboratory
GDH 232	Oral Hygiene
GDS 235	Oral Pathology
ORB 113	Histology
ORB 115	General Gross Anatomy Lecture
ORB 131	Head and Neck Anatomy
ORB 133	Oral Histology and Embryology
ORB 137	Nutrition
ORB 311	Dental Pharmacology I
ORB 331	Dental Pharmacology II
PER 213	Periodontology Lecture
PER 233	Periodontology Lecture
PER 313	Periodontology Lecture
GDS, PER or CPD Directed Studies (1-3 credits)	

Total Credits

63

## Emergency Medical Services

### Majors in Emergency Medical Services

- B.S., Emergency Medical Services (p. 599)
- EMS - Pre-Accelerated Nursing Curriculum (p. 600)
- EMS - Pre-Medical Curriculum (p. 600)

### Courses

#### **EMS 101. Fundamentals Of Emergency Medical Services. 4 credits.**

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.

#### **EMS 160. Out Of Hospital Care Course For Nurses. 4 credits.**

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 credits.**

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 201/BIO 205 or BIO 202/BIO 206 (both preferred).

**EMS 215. Medical Terminology. 1 credit.**

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 300. Advanced EMT. 7 credits.**

Based upon current national Advanced EMT (AEMT) Educational Standards and Guidelines, the AEMT course is comprised of lectures, practical skills sessions and case studies. Topics include anatomy and physiology, pharmacology including the administration of select AEMT medications, blind insertion airway devices to maintain ventilation, and intravenous access and intraosseous access and infusions. P: DC.

**EMS 301. Preparatory. 5 credits.**

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 320. AEMT Clinical Practicum. 1 credit.**

Clinical practicum will occur within hospitals and clinics under the direct supervision of physicians, nurses and paramedics. Students will participate in performing patient assessments and formulate plans of care, performing skills within the scope of practice of Advanced EMTs. P: DC.

**EMS 321. AEMT Field Internship. 2 credits.**

Field internship includes practical application of knowledge and skills learned as an Advanced EMT, under the direct supervision of paramedics, on an ambulance. Students will participate in performing patient assessments and formulate plans of care, performing skills within the scope of practice of Advanced EMTs. P: DC.

**EMS 403. Patient Assessment. 3 credits.**

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 credit.**

Based on the DOT 2000 EMT-Paramedic curriculum; includes Airway and Ventilation. P: DC.

**EMS 407. Trauma Management. 4 credits.**

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 credits.**

Based on the DOT 2000 EMT-Paramedic curriculum. P: DC.

**EMS 411. Special Considerations. 3 credits.**

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 credits.**

Based on the DOT 2000 EMT-Paramedic curriculum. P: DC.

**EMS 413. Operations. 2 credits.**

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 credits.**

Includes Neurology, Endocrine, Allergy/Anaphylaxis, Gastrointestinal, Renal. Based on the DOT 2000 EMT-Paramedic curriculum. P: DC.

**EMS 415. Assessment Based Management. 1 credit.**

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 credits.**

Includes Toxicology, Hematology, Environmental, Infectious Disease, Behavioral. Based on the DOT 2000 EMT-Paramedic curriculum. P: DC.

**EMS 420. Clinical Practicum I. 1 credit.**

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 credit.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 credits.**

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 6 hours. P: DC.

**EMS 451. Paramedic Certificate-to-Academic Transition II. 1-6 credits.**

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. May be repeated to a limit of 6 hours. P: EMS 450.

**EMS 452. Paramedic Certificate-to-Academic Transition III. 3-6 credits.**

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. May be repeated to a limit of 6 hours. P: EMS 451.

**EMS 455. Paramedic Clinical Transition I. 3-6 credits.**

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 6 hours. P: DC.

**EMS 456. Paramedic Clinic Transition II. 3-6 credits.**

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. May be repeated to a limit of 6 hours. P: EMS 455.

**EMS 457. Paramedic Clinical Transition III. 3-6 credits.**

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. May be repeated to a limit of 6 hours. P: EMS 456.

**EMS 460. Paramedic Certification Course for Health Care Professionals. 6 credits.**

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., 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 credits.**

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 credits.**

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 credits. 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 credits.**

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 credits.**

May be repeated to a limit of six hours. P: DC.

**EMS 495. Directed Independent Study. 1-3 credits.**

May be repeated to a limit of six hours. P: DC.

**EMS 497. Directed Independent Research. 1-3 credits.**

May be repeated to a limit of six hours. P: DC.

# B.S., Emergency Medical Services

## EMS Major Requirements: 61 Credits

EMS 101 Fundamentals Of Emergency Medical Services with a grade of "C" or better or equivalent course and successful completion of entrance exam.

EMS 101	Fundamentals Of Emergency Medical Services	4
EMS 301	Preparatory	5
EMS 403	Patient Assessment	3
EMS 405	Airway Management/Ventilation	1
EMS 407	Trauma Management	4
EMS 410	Medical Emergencies I: Respiratory	2
EMS 411	Special Considerations	3
EMS 412	Medical Emergencies II: Cardiac	5
EMS 413	Operations	2
EMS 414	Medical Emergencies III: NEAGR	5
EMS 415	Assessment Based Management	1
EMS 416	Medical Emergencies IV: THEIB	4
EMS 420	Clinical Practicum I	1
EMS 421	Field Practicum I	1
EMS 422	Clinical Practicum II	2
EMS 423	Field Practicum II	2
EMS 424	Clinical Practicum III	2
EMS 425	Field Practicum III	2
Select 12 credits from the following:		12
EMS 440	Educational Planning And Assessment For EMS Educators	
EMS 470	Management Of Emergency Medical Systems	
EMS 475	Critical Care Paramedic Preparatory	
EMS 479	Special Topics in EMS	
EMS 480	Critical Care Paramedic	
EMS 493	Directed Independent Readings	
EMS 495	Directed Independent Study	
EMS 497	Directed Independent Research	

Total Credits

61

Students who have successfully completed the major courses are eligible for national registry or state certification as paramedics.

## EMS - Pre-Accelerated Nursing Curriculum

### EMS - Pre-Accelerated Nursing Requirements: 49 Credits

EMS 101 Fundamentals Of Emergency Medical Services with a grade of "C" or better or equivalent course and successful completion of entrance exam.

EMS 101	Fundamentals Of Emergency Medical Services	4
EMS 301	Preparatory	5
EMS 403	Patient Assessment	3
EMS 405	Airway Management/Ventilation	1
EMS 407	Trauma Management	4
EMS 410	Medical Emergencies I: Respiratory	2
EMS 411	Special Considerations	3
EMS 412	Medical Emergencies II: Cardiac	5
EMS 413	Operations	2
EMS 414	Medical Emergencies III: NEAGR	5
EMS 415	Assessment Based Management	1
EMS 416	Medical Emergencies IV: THEIB	4
EMS 420	Clinical Practicum I	1
EMS 421	Field Practicum I	1
EMS 422	Clinical Practicum II	2
EMS 423	Field Practicum II	2
EMS 424	Clinical Practicum III	2
EMS 425	Field Practicum III	2
Total Credits		49

Students who have successfully completed the major courses are eligible for national registry or state certification as paramedics.

## EMS-Pre-Medical Curriculum

### EMS-Pre-Medical Requirements: 49 Credits

EMS 101 Fundamentals Of Emergency Medical Services with a grade of "C" or better or equivalent course and successful completion of entrance exam.

EMS 101	Fundamentals Of Emergency Medical Services	4
EMS 301	Preparatory	5
EMS 403	Patient Assessment	3
EMS 405	Airway Management/Ventilation	1
EMS 407	Trauma Management	4
EMS 410	Medical Emergencies I: Respiratory	2
EMS 411	Special Considerations	3

EMS 412	Medical Emergencies II: Cardiac	5
EMS 413	Operations	2
EMS 414	Medical Emergencies III: NEAGR	5
EMS 415	Assessment Based Management	1
EMS 416	Medical Emergencies IV: THEIB	4
EMS 420	Clinical Practicum I	1
EMS 421	Field Practicum I	1
EMS 422	Clinical Practicum II	2
EMS 423	Field Practicum II	2
EMS 424	Clinical Practicum III	2
EMS 425	Field Practicum III	2
Total Credits		49

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 381 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 I	3-6
EMS 451	Paramedic Certificate-to-Academic Transition II	3-6
EMS 452	Paramedic Certificate-to-Academic Transition III	3-6
EMS 455	Paramedic Clinical Transition I	3-6
EMS 456	Paramedic Clinic Transition II	3-6
EMS 457	Paramedic Clinical Transition III	3-6

## English (B.A.)

### Specific Requirements for Admission to the English Major

Completion of ENG 120 World Literature I, ENG 121 World Literature II, and ENG 150 Contemporary Composition:College Composition with a grade of "C" or better. Students who wish to apply to the Creative Writing Specialization: Completion of ENG 300 Introduction To Creative Writing with a grade of "B" or better or permission of the Director of Creative Writing.

### B. A., Major in English: 36 Credits

ENG 201	Interpreting Texts	3
ENG 202	Entering a Professional Dialogue	3
ENG 499	Senior Project	3
Literatures and Histories course <sup>1</sup>		3

Cultures and Identities course <sup>1</sup>	3
Writing and Languages course <sup>1</sup>	3
Authors or Genres course <sup>1</sup>	3
<b>Total Credits</b>	<b>21</b>

<sup>1</sup> See B.A., English (p. 232) for list.

## Specialization in Creative Writing

ENG 300	Introduction To Creative Writing	3
ENG 301	Creative Writing: Narrative Forms	3
ENG 302	Creative Writing: Poetic Forms	3
ENG 403	Seminar in Creative Writing	3
Select three additional credits from ENG courses numbered 300 or above.		3
<b>Total Credits</b>		<b>15</b>

## Health and Administration and Policy (B.S.)

### Specific Requirements for Admission to the Health Administration and Policy Major

Successful completion of HAP 200 Introduction To Healthcare Administration with a grade of "C" or better and sophomore standing.

### B. S., Major in Health Administration and Policy Requirements: 42 Credits

HAP 200	Introduction To Healthcare Administration	3
HAP 310	Health Finance and Budgeting	3
HAP 315	Healthcare, Society and Culture	3
HAP 334	Public Policy And Health Care	3
HAP 515	Law and Health Systems	3
HAP 312	Quantitative Methods in the Social Sciences	3
ACC 201	Introduction To Financial Accounting	3
HAP 331	Managing The Public And Non-Profit Sectors	3
Select one of the following:		3
COM 314	Managerial Communication	
MGT 301	Managerial Process And Organizational Behavior	
Select one of the following:		3
HAP 457	Biomedical Ethics: Philosophical and Theological Approaches	
HAP 456	Public Health Ethics	
Select two of the following selective courses: <sup>1</sup>		6
BIA 253	Management Information Systems	

COM 320	Leadership: Theories, Styles, And Skills	
COM 360	Organizational Communication Theories	
EDP 361	Social Justice in the Dominican Republic <sup>2</sup>	
HAP 317	Global Health Issues	
HAP 350	The Essentials of Public Health	
HAP 355	Essentials of Epidemiology	
HAP 390	Health Communication	
HAP 485	Internship In Health Administration And Policy	
MGT 351	Personal/Human Resources Management	
MKT 319	Principles of Marketing	
Select six additional credits between HAP 400 and HAP 440.		6
Total Credits		42

<sup>1</sup> Or other courses with the consent of the Program Director.

<sup>2</sup> Taught in the Dominican Republic.

## Leadership (B.S.)

The online Bachelor of Science degree with a major in Leadership is administered and conferred by the College of Professional Studies. This program provides a baccalaureate degree that is accessible to adult learners, who seek the quality, rigor, and reputation of a Jesuit, values-centered, liberal arts education, which builds upon the learner's skills and life experiences and is relevant to personal and professional goals. The multi-disciplinary course of study develops leaders in a variety of professions.

All courses are delivered online, although in some instances, students may have the option to take certain traditional face-to-face courses with permission from the Program Director. The traditional sixteen-week semester is divided into two, eight-week accelerated terms. Students will normally take two, three-credit courses per accelerated term, i.e. four courses (twelve credits) per semester. Summer- and winter-term courses may also be available. Specializations are available in health care management, human capital management, and non-profit sector management. Flexible entry dates are available throughout the year: August, October, January, March, and May.

### Leadership (B.S.) Major Requirements (36 credits)

ILS 200	Introduction to Integrated Leadership Studies	3
ILS 302	Leadership, Planning, and Project Management	3
ILS 303	Ethical Dimensions of Leadership	3
ILS 304	Financial and Quantitative Dimensions of Leadership	3
ILS 305	Leadership and Social Justice: Faith Traditions and Global Perspectives	3
ILS 320	Theories of Leadership and Organizational Change	3
ILS 402	ILS Portfolio Preparation	3
Select fifteen credits of electives.		15
Total Credits		36

*An additional 12 credits of electives are required and can apply to an area of specialization: health care management, non-profit sector management, human capital management. Elective courses are currently under development.*

## Remaining Credits for the Degree (54 credits)

An additional 54 credits are required for the bachelor's degree. These credits can be fulfilled by transfer credits, other prior learning credits, or additional Creighton courses chosen in consultation with the student's College of Professional Studies advisor.

## Prior Learning Assessment

Credits for prior college-level learning experiences may be available to students who pursue the Leadership major only. These prior learning credits have the potential to fulfill credits required for the degree including those in core or major curriculum, or any additional required courses, up to 80 credit hours in total. Students can utilize the following options to fulfill some requirements:

1. **Transfer Credits.** Students can transfer credits from other accredited institutions of higher education with a grade of "C minus" or better.
2. **Credit by Examination.** Students can utilize standardized national exams to demonstrate learning objectives and gain credit. Eligible exams include College Level Examination Program (CLEP), DANTES Subject Standardized Test (DSST), Foreign Language Achievement Testing Service (FLATS), Excelsior College Exams, Advanced Placement Exams (AP), and International Baccalaureate Exams (IB).
3. **Prior Learning Portfolio.** Students can assemble a written portfolio with supporting documentation to demonstrate learning outcomes and thereby gain college credit. Students will enroll in a three-credit, writing-intensive course that guides them through compilation process. In this course, students will reflect on their lifelong personal and professional experiences and identify how these contribute to their current and future learning. No more than 30 credits can be earned through a prior learning portfolio.
4. **American Council on Education (ACE) Recommendations.** Students can transfer credits from ACE transcripts. ACE conducts college credit assessments for training courses sponsored by various organizations, including businesses, government, and military.
5. **Military Training and Experience.** Credit will be granted for military training and experience. Official transcripts are available through ACE and respective military branches. The ACE Military Program evaluates courses provided through the Air Force, Army, Coast Guard, Navy, Marines, and Department of Defense. In addition to ACE transcripts, other evidence for learning may include: Form DD-214, Report of Separation; Form DD-295, Application for the Evaluation of Learning Experiences During Military Service; Community College of the Air Force Transcript; Army/American Council on Education Registry Transcript (AART), or Joint Services Transcript (JST); US Coast Guard Institute Transcript; Sailor-Marine American Council On Education Registry Transcript (SMART).
6. **Credential Review.** Certifications and training can be reviewed for college credit. These include, but are not limited to: professional certifications, educational and training courses, and certain college-level experiential learning that may have earned selected licenses, certificates, and/or other credentials. Decisions will be made on a case by case basis by Creighton faculty members or in consultation with national guidelines.
7. **Challenge Exams.** Challenge exams are generally offered only when other formal examinations (e.g. CLEP tests) are not available, or when knowledge and skills are better tested by means

of a different format. Challenge exams are developed by faculty members for students on an individual basis. Not all courses may be eligible and these will be decided on a departmental basis.

For prior learning assessment policies and processes, contact the College of Professional Studies, Office of the D

## Courses

### **ILS 200. Introduction to Integrated Leadership Studies. 3 credits.**

This course provides foundational knowledge and skills for engaging in the Integrated Leadership Studies program. Students will be introduced to foundational concepts and theories of leadership and begin a process of reflection on their leadership style and its impact on their personal and professional development. Students will also gain an understanding of the expectations and purpose of the program; their responsibilities as students; the mission and values of the University, and how these align with the student's personal and professional goals. They will be introduced to basic skills for using library electronic resources including library search strategies; review essential academic writing skills; and initiate a program portfolio; building a learning community; developing strategies for being a successful distance learner, and developing proficiency with the computer hardware and software used in this program.

### **ILS 201. Prior Learning Assessment Theory and Practice. 3 credits.**

Prior learning assessment (PLA) is the process of earning college credit for learning that was acquired from non-classroom experiences like work, professional training, military careers, volunteering and personal life. This course will help students to identify areas of learning they may want to have evaluated for college-level equivalency. This course will also guide students through the preparation and compilation of all components required for the evaluation of a portfolio for prior learning. Students will learn critical reflection skills to rethink the value of their learning and its implications for future learning. Adult learning theory, models, and concepts will be discussed and applied to case studies. This course is facilitated by an instructor who provides guidance for the student in preparing his or her portfolio-based request for credit. P: English composition; ILS 200.

### **ILS 252. Social Media Persona. 3 credits.**

Do you want to appear knowledgeable, authoritative, accessible, or any combination of these in an increasingly digital and global environment? Who you are on Facebook and Twitter can be as important as who you are in business memos and project proposals. This course is designed for students to gain experience and skills in promoting an appropriate interactive identity (or persona) and reputation in what Paul Levinson coins are new new media. Students will examine identity and reputation (brand identity) via social media concepts in personal and professional scenarios. Students will have to create online biographical sound bites of themselves through various applications, not limited to email, Podcasts, LinkedIn, Facebook, Twitter, and resumes.

**ILS 301. Theories of Leadership and Organizational Change. 3 credits.**

The Leadership and Organizational Change course is an introductory leadership course designed to prepare students to develop or improve their knowledge, understanding and skills in communication, interpersonal relationships, leadership practice, leadership theories, organizational culture and change, diversity and working with teams and small groups, so that they can be more effective in the leadership positions they currently hold, or prepare for a position to which they aspire. The course will build on and enhance the student's preexisting leadership knowledge and experience. Students will be expected to develop and write about critical incidents/case studies based on their experiences, which will provide meaningful dialogue and discussion for each of the major topics of the course. This strategy will integrate the knowledge and experience of adult learners to the course content. Studying leadership is a journey and knowledge is socially constructed, so participation by all members of the class is required to enhance collaborative learning and provide feedback which contributes to the diversity of ideas from and across all types of leadership positions and organizations.

**ILS 302. Leadership, Planning, and Project Management. 3 credits.**

This course introduces students to the basic concepts of strategic leadership, project planning, and management. Additionally, students will examine and consider the practical applications of strategic leadership, project planning, and project management. Students will then apply these concepts and principles in real-world scenarios.

**ILS 303. Ethical Dimensions of Leadership. 3 credits.**

Leadership is not just an act but a way of being. This course will explore the ethical foundations that inform the leader's personal and professional practices. Students will examine ethical theories and concepts applied to leadership challenges in real-world situations, including examples of their own life experience. Emphasis will be placed on understanding ethical leadership for social and organizational change that seeks the common good, the leader's role as a moral agent, as well as the organization's role as a moral agent in society.

**ILS 304. Financial and Quantitative Dimensions of Leadership. 3 credits.**

This course is designed specifically for students to gain practical and job-ready financial and quantitative analysis skills. The course incorporates real-world case studies designed to help students strengthen their quantitative and finance acumen. Students will gain an understanding of key financial terms and tools to demonstrate how they can be used in employment situations. They will also be introduced to key concepts from statistical analysis. This course provides foundational information required for leaders to successfully understand the key functional areas of business and the role of quantitative data in decision making. The course will assist students in understanding finance from a holistic perspective. The fundamentals of financial statements, the financial perspective of strategic business decisions and plans, and how to use financial information to impact performance will be addressed. The course will prepare students to interpret financial and other quantitative data and answer relevant questions related to the workplace. Students will gain the insight required to understand the advantages and disadvantages of different types of financial and quantitative data in order to identify the relevant questions to ask to accomplish specific goals of their workplace.

**ILS 305. Leadership and Social Justice: Faith Traditions and Global Perspectives. 3 credits.**

The primary goal of the course is to familiarize students with the ways in which religious and social justice principles of Catholic and non-Catholic faith traditions can motivate leaders in their approach to problems of social justice. Students will examine in particular Catholic social teaching about social justice, including the core principles of human dignity, common good, solidarity, and subsidiarity. Reading Chris Lowney's book, *Heroic Leadership*, students will also examine how Ignatian charisms have informed specific efforts to enact social change. Students will then examine, research, and make written presentations, focusing on how other faith traditions, including their own, address questions of leadership and social justice, both historically and in contemporary society, in thought and in action. Finally, students will reflect upon how their own faith background contributes to their personal and professional development.

**ILS 320. Theories of Leadership and Organizational Change. 3 credits.**

The Leadership and Organizational Change course is an introductory leadership course designed to prepare students to develop or improve their knowledge, understanding and skills in communication, interpersonal relationships, leadership practice, leadership theories, organizational culture and change, diversity and working with teams and small groups, so that they can be more effective in the leadership positions they currently hold, or prepare for a position to which they aspire. The course will build on and enhance the student's preexisting leadership knowledge and experience. Students will be expected to develop and write about critical incidents/case studies based on their experiences, which will provide meaningful dialogue and discussion for each of the major topics of the course. This strategy will integrate the knowledge and experience of adult learners to the course content. Studying leadership is a journey and knowledge is socially constructed, so participation by all members of the class is required to enhance collaborative learning and provide feedback which contributes to the diversity of ideas from and across all types of leadership positions and organizations.

**ILS 331. Healthcare in Society. 3 credits.**

This course is designed to give students an overview of the state of modern healthcare including types of delivery systems, types of insurance coverage, the impact of the Affordable Care Act, and the effects a modern system has on society.

**ILS 334. Healthcare Finance & Economics. 3 credits.**

Students will learn the various aspects of healthcare finance including fee for service, wRVUs, finance benchmarks, insurance payments, staffing costs, and billing and coding processes. Participants will engage in budget projection and development exercises to enhance learning.

**ILS 338. Quality in Healthcare. 3 credits.**

With an ever-increasing emphasis on quality healthcare and pay for performance practices, healthcare leaders must have a clear understanding of quality management, assessment and reporting. This course will help students understand how to determine quality metrics, evaluate and assess performance based on those metrics, and develop and implement action plans to reach quality benchmarks.

**ILS 341. Foundations of the Nonprofit Sector. 3 credits.**

This course will provide students with an understanding of the nature, characteristics, purpose, and challenges of nonprofits as the fastest growing sector in the United States while also learning about the difference between nonprofits and the public and private sectors as well as the interconnectivity of the three sectors.

**ILS 352. Emotionally Intelligent Leadership. 3 credits.**

This course will focus on the core competencies of EIL, which combines the concepts of emotional intelligence and leadership in one model. In this course, students will explore the EIL model (consciousness of context, consciousness of self, and consciousness of others) and the twenty-one capacities that define the emotionally intelligent leader by experiencing, developing and applying the EIL concepts and skills that make up their emotional intelligence.

**ILS 356. Coaching and Mentoring. 3 credits.**

In this course, students will explore the role of leadership and why a good leader is also a good coach. Students will explore three core values of an effective coach: people, performance, and process. Students will describe and demonstrate the Ten Skills of Coaching. Students will conduct an effective coaching session and develop and action plan in partnership with a colleague.

**ILS 357. Women in Leadership. 3 credits.**

This course helps students understand the unique challenges and opportunities confronting women in leadership roles in today's society. Students explore factors and values affecting women's leadership development in the United States and several other countries. Students become aware of modern-day issues that affect women in their communities, nation, and world by real world case studies. Students utilize discussion boards to communicate thoughts on topics, reflection papers, conduct an interview with a woman in leadership positions, write two papers, and develop an informational "woman in leadership" presentation in partnership with colleagues.

**ILS 364. The Human Capital Management Environment. 3 credits.**

This course presents the organizational context of Human Resource Management, and its role in optimizing an organization's capability to meet its business objectives and achieve its mission. Students will examine the diverse philosophies and contemporary practices of multiple companies, in a variety of industries, and will gain an understanding of the effectiveness of these differing approaches. They will also be introduced to legislation affecting the management of human capital within organizations, and the HR policies that are impacted.

**ILS 401. ILS Practicum. 3 credits.**

Students will arrange a practical field experience to further develop their skills and abilities in a professional or organizational setting where they will be engaged in interdisciplinary leadership in action. This could include working with another person on a major project or exploring an area outside the student's own field (business, nonprofit, or health). The student will gain an understanding of researching internal or external elements related to personnel, policy, politics, economics, finance, governing relationships, elements of change, or other influences that challenge leadership, and then apply or recommend an innovative solution. The practicum experience will be arranged working with the practicum advisor.

**ILS 402. ILS Portfolio Preparation. 3 credits.**

This course will allow students to prepare and formally present the portfolio they have been building during their journey through the program. The portfolio will become an integral part of the student's learning experiences. The portfolio should be regarded much like an artist's portfolio, building it continually through the student's program.

**ILS 420. Team Strategies: Implementing Projects for Process Improvement. 3 credits.**

Project planning and action plans drive implementation action. Leading people to get things done through and with others dynamically aligned with the project plan requires rational tactical alignment with strategic thinking. This course will build on the basic concepts learned in Strategic Leadership and Project Management. Students will test their skills and build new experience through interactive simulation requiring decision making and critical thinking balancing speed, cost and quality improvements. P: ILS 302.

**ILS 430. Legal and Regulatory Aspects of Healthcare. 3 credits.**

As regulations on the healthcare industry become more complex, it is vital that leaders understand these regulations and how they are implemented into healthcare operations. In this course students will explore various regulations applied to the healthcare industry and discuss their implementation in day to day operations.

**ILS 442. Volunteer Recruitment, Training and Management. 3 credits.**

Volunteers are essential to the nonprofit sector for a variety of reasons including financially and strategically. This course will discuss the important role of volunteers as an extension of the nonprofit human resource prowess; integral for delivery of programs and services while also promoting and reinforcing its mission within the greater community.

**ILS 445. Nonprofit Governance: Board Development and Strategic Planning. 3 credits.**

Nonprofit organizations have a unique governance model that requires thorough understanding. This course will introduce the students to effectively recruiting, training, and managing board members. Also, the students will learn about strategic planning as an imperative for running a sustainable and mission-centered organization.

**ILS 458. Organizational Messaging. 3 credits.**

Organizational rhetoric is the strategic use of symbols to generate meanings—the communication processes through which formal organizations exert influence on popular attitudes and public policies. In this course, we explore how people within organizations use language to generate collective identities, communicate with stakeholders, and reinforce particular organizational values and goals. We will learn different theories and approaches to analyzing rhetoric in order to engage and critique particular “artifacts” created by organizations (e.g., handbooks, websites, letters, press releases, public relations efforts, policies) using appropriate methods. We will take an evaluative approach (i.e., was the rhetoric successful?) as well as a critical approach (i.e., is there a power differential?) toward organizational rhetoric .

**ILS 462. Acquiring and Selecting Human Resource Capability. 3 credits.**

This course introduces the student to workforce planning and considerations in staffing the organization. Job analysis, which is considered to be the capstone of human resource management, is explained and demonstrated, along with the components of effective job design. Various methods of recruiting staff are presented for students to evaluate. The selection process is examined, and the key legal considerations impacting staffing are identified.

**ILS 493. Directed Independent Readings. 1-3 credits.**

May be repeated to a limit of six hours. P: DC.

**NDR 212. Conflict Engagement and Negotiation. 3 credits.**

Through this course students will gain an introductory understanding of conflict analysis, recognize a wide range of contexts in which conflict occurs, and understand the decision-making process involved in shaping its development. This course aims at helping students become acquainted with the commonly encountered distributive bargaining style of negotiation and an integrative style of negotiation, which aspires to result in "win-win" resolutions - and become adept at choosing between these two. The course will constantly shift students between the theoretical and practical levels: Students will be introduced to state of the art theories of negotiation, and they will implement them through interactive simulations and other forms of experiential learning. These two levels, combined, allow students to compare theory and practice as well as to reflect on their own strengths and weaknesses as negotiators.

## Certificate Programs

### Undergraduate Certificates

Persons who may not initially want to follow a bachelor's degree program may enroll in one of the undergraduate certificate programs offered by the College of Professional Studies. Those without prior college work may elect to complete a certificate program first and have the option of continuing with the complete degree program. (Courses required in most of the certificate programs meet some of the major requirements in the degree programs.) 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.

Undergraduate certificate programs offered are:

- Business Administration (p. 612)
- Communication Studies (p. 612)
- Computer Science (p. 613)
- Creative Writing (p. 613)
- Health Administration and Policy (p. 614)
- Mathematics (p. 614)
- Pre-Health Sciences (p. 614)
- Psychology (p. 615)

A minimum GPA of 2.00 is required to earn an undergraduate certificate. A grade of "C" or better is needed in all courses to count toward the certificate. No course may be taken Pass/No Pass. All course requirements will be taken at Creighton, as transfer credit is not allowed for certificate programs.

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>.

## 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.

## Certificate in Business Administration

A student enrolled outside the Heider College of Business who does not plan to earn a bachelor's or master's degree from the Heider College of Business, may earn a Certificate of Business Administration. This certificate, along with a bachelor's degree in any discipline, prepares a non-business student for graduate work in the M.B.A., M.S.-BIA, and M.S.A.P.M. programs.

## Certificate in Business Administration Requirements: 31 Credits <sup>1</sup>

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
Total Credits		31

<sup>1</sup> **Please Note:** The 31 required certificate hours is the maximum number of credits in which a non-business administration student may enroll in the Heider College of Business.

While no specific mathematics courses are required for the certificate, successful completion of BUS 229 Statistical Analysis 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.

## Communication Studies

A *Certificate of Organizational Communication* will be awarded to students who successfully complete the following requirements (24 credits):

**Required for Admission:** 2.25 GPA and COM 152 Civic Engagement through Public Communication

COM 200	Communication Practices	3
COM 300	Communication Research Methods	3
COM 359	Rhetoric and Public Culture	3
COM 360	Organizational Communication Theories	3
COM 361	Interpersonal Communication	3
Select nine additional credits of 300-level or above COM courses.		9
Total Credits		24

## Computer Science

A *Certificate in Computer Science* will be awarded to students who successfully complete the following requirements (24 credits):

CSC 221	Introduction to Programming	3
CSC 222	Object-Oriented Programming	3
CSC 321	Data Structures	3
CSC 414	Introduction To Computer Organization	3
CSC 421	Algorithm Design and Analysis	3
Select three additional Computer Science courses 400-level or above.		9
Total Credits		24

CSC 121 Computers and Scientific Thinking may be applied to this certificate with department approval.

## Creative Writing

A *Certificate in Creative Writing* will be awarded to students who successfully complete the following requirements (21 credits):

ENG 300	Introduction To Creative Writing	3
ENG 301	Creative Writing: Narrative Forms	3
ENG 302	Creative Writing: Poetic Forms	3
ENG 403	Seminar in Creative Writing	6
Two literature courses chosen in consultation with major advisor.		6
Total Credits		21

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.

## Health Administration and Policy

A *Certificate of Health Administration and Policy* will be awarded to students who successfully complete the following requirements (24 credits):

HAP 200	Introduction To Healthcare Administration	3
HAP 315	Healthcare, Society and Culture	3
HAP 334	Public Policy And Health Care	3
HAP 390	Health Communication	3
MGT 301	Managerial Process And Organizational Behavior	3
Select nine credits from upper-division HAP courses.		9
Total Credits		24

## Mathematics

A *Certificate in Mathematics* will be awarded to students who successfully complete the following requirements (29 credits):

MTH 245	Calculus I	4
MTH 246	Calculus II	4
MTH 347	Calculus III	3
MTH 310	Fundamentals of Mathematics	3
MTH 529	Linear Algebra	3
MTH 545	Differential Equations	3
Select one of the following:		3
MTH 581	Modern Algebra I	
MTH 591	Analysis I	
Select six additional credits of 500-level MTH courses.		6
Total Credits		29

## Pre-Health Sciences

A *Certificate in Pre-Health Sciences* will be awarded to students who successfully complete a minimum of 24 credits chosen from the following courses:<sup>1</sup>

BIO 202 & BIO 206	General Biology: Cellular and Molecular and General Biology: Cellular and Molecular	4
BIO 201 & BIO 205	General Biology: Organismal and Population and General Biology: Organismal and Population Lab	4
CHM 203 & CHM 204	General Chemistry I and General Chemistry I Laboratory	4
CHM 205 & CHM 206	General Chemistry II and General Chemistry II Laboratory	4

CHM 321 & CHM 322	Organic Chemistry I and Organic Chemistry I Laboratory	4
CHM 323 & CHM 324	Organic Chemistry II and Organic Chemistry II Laboratory	4
PHY 211	General Physics I	4
PHY 212	General Physics II	4
MTH 245	Calculus I	4
Plus electives chosen from other courses recommended by the pre-health sciences advisory committee.		
<b>Total Credits</b>		<b>36</b>

<sup>1</sup> A minimum of 18 hours must be completed at Creighton.

## Psychology

A *Certificate of Psychology* will be awarded to students who successfully complete the following requirements (37 credits):

### Group A: Introduction and Fundamental Methodologies of Psychology (10 credits)

Students must complete all courses in Group A.

PSY 111	Introductory Psychology	3
PSY 313	Research Methods And Statistics I	3
PSY 315	Research Methods And Statistics II	3
PSY 316	Research Methods And Statistics II Laboratory	1

### Group B: Foundational Domains in Psychology (15 credits)

Students complete one course from each of the following four domains.

Domain 1		3
PSY 431 or PSY 434	Cognitive Psychology Learning: Basic Processes	
Domain 2		3
PSY 436 or PSY 437	Sensation and Perception Physiological Psychology	
Domain 3		3
PSY 341 or PSY 342 or PSY 351	Infant and Child Development Adolescent And Adult Development Abnormal Psychology	
Domain 4		3
PSY 344 or PSY 343	Social Psychology Psychology of Personality	

Fifth Domain Course		3
Students select a fifth course from the four domains above.		

### Group C: Applications of Psychology (3 credits)

Students must complete one of the following courses.		3
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PSY 352	Health Psychology	
PSY 353	Industrial Psychology	
PSY 363	Psychology and the Law	
PSY 367	Contemporary Trends in Psychology	
PSY 369	Organizational Psychology	
PSY 376	School Psychology	
PSY 423	Psychological Assessments	
PSY 463	Forensic Psychology	

**Group D: Senior Capstone Courses (3 credits)**

Students must take one class. To enroll in Group D students must have completed Group A and B requirements or be of senior status. 3

## Application Capstones

PSY 326	Undergraduate Internship In Psychology	
or PSY 474	Undergraduate Internship In Industrial/Organizational Psychology	

## Integration Capstones

PSY 424	History And Systems Of Psychology	
or PSY 426	Evolutionary Psychology	
or PSY 428	Multicultural Issues in Psychology	

## Research Capstones

PSY 491	Honors Seminar	
or PSY 465	Advanced Behavioral Research	

**PSY Elective Courses**

Students complete 6 credits (2 courses). <sup>1</sup> 6

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Total Credits 37

<sup>1</sup> PSY 495 and/or PSY 497 can only account for 3 credits. SWK 261 and BIO 571 also count as electives.

## Independent Study Program

All students are eligible to register for self-paced courses in Creighton's Independent Study Program. 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 Nutrition (2 credits), which is \$642. Textbook and supplementary course material costs are in addition to tuition. Independent Study Program information is available online at <http://creighton.edu/isp> or from the College of Professional Studies Office, B-11, Epley Building 402.280.1253 or 1.800.637.4279. Students may register for an Independent Study Program course any time during the year.

## Available Courses

ENG 120	World Literature I	3
Coursewriter: Mary Longo, Ph.D.		
ENG 121	World Literature II	3
Coursewriter: Thomas Kuhlman, Ph.D.		
HIS 101	The Modern Western World	3
Coursewriter: Elizabeth Elliot-Meisel, Ph.D.		
HIS 103	The Asian World	3
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
Coursewriter: Eugene E. Selk, Ph.D.		
PHL 320	God and Persons: Philosophical Reflections	3
Coursewriter: Eugene E. Selk, Ph.D.		
PSY 111	Introductory Psychology	3
Coursewriter: Debra L. Schwiesow, Ed.S.		
PSY 341	Infant and Child Development	3
Coursewriter: Debra L. Schwiesow, Ed.S.		
PSY 271	Developmental Psychology	3
Coursewriter: Debra L. Schwiesow, Ed.S.		
Theology - The Christian Tradition (THL 110 - THL 113)		
Coursewriter and Instructor: Sr. Joan L. Mueller, OSC, Ph.D.		
THL 209	The Synoptic Gospels: The Life of Jesus	3
Coursewriter: Bruce J. Malina, Ph.D.		
THL 325	Catholicism: Creed and Question	3
Coursewriter/Instructor: Sr. Joan L. Mueller, OSC, Ph.D.		
THL 335	Jesus Christ: Yesterday and Today	3
Coursewriter/Instructor: Sr. Joan L. Mueller, OSC, Ph.D.		

## Noncredit Offerings

The following noncredit program is made available through the College of Professional Studies:

### Institute for Reading Development

University College 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.

# Faculty

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**Amy Abbott PhD, RN**, *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 Abrams**, *Associate Professor of Philosophy* (2005; 2007).

B.A., Gonzaga University, 1993; Ph.D., Saint Louis University, 2000

**Roger 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**, *Professor of English* (2001; 2012).

B.F.A., University of Nebraska at 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

**Littleton Alston**, *Associate Professor of Fine and Performing 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 at Duluth, 1967; M.S., Michigan Technological University, 1969; Ph.D., University of Minnesota at Minneapolis, 1983

**Jack Angus**, *Professor Emeritus of Sociology, Anthropology, and Social Work* (1965; 2007).

B.A., Notre Dame, 1952; M.A., 1953; Ph.D., 1967

**Simon Appleford**, *Assistant Professor of History* (2014).

M.A., University of St. Andrews, 2000; M.Litt, University of St. Andrews, 2001; Ph.D., University of Illinois at Urbana-Champaign, 2014

**Julian Arribas**, *Professor of Modern Languages and Literatures* (2010); *Chair, Department of Modern Languages and Literatures*.

B.S., Universidad Pontifica, 1982; M.A., Universidad de Salamanca, 1983; M.A., University of Michigan, 1988; Ph.D., University of Michigan, 1993

**Marilee Aufdenkamp MS, RN**, *Assistant Professor of Nursing* (1999; 2005).

B.S.N., Creighton University, 1991; M.S. in Nursing, Creighton University, 1999

**James Ault III**, *Associate Professor of Sociology, Anthropology, and Social Work* (1970; 1992).

B.A., University of Tulsa, 1965; M.A., 1967

**Charles Austerberry**, *Assistant Professor of Biology* (1987).

B.A., Kalamazoo College, 1979; Ph.D., Washington University, 1987

**Erin Averett**, *Assistant Professor of Fine and Performing Arts* (2012).

B.A., University of Georgia, 1988; M.A., University of Missouri, 2000; Ph.D., 2007

**Matthew Averett**, *Associate Professor of Fine and Performing Arts* (2007; 2013).

B.A., University of Missouri at Columbia, 1991; M.A., 1999; Ph.D., 2006

**Amy S. Badura Brack**, *Professor of Psychology* (1998; 2013).

B.A., University of Notre Dame, 1992; Ph.D., University of Iowa, 1998

**Thomas Baechle**, *Professor of Exercise Science* (1977; 1992); *Chair, Department of Exercise Science and Pre Health Professions*.

B.S., Eastern Kentucky University, 1967; M.Ed., University of Nebraska at Lincoln, 1969; Ed.D., University of South Dakota at Vermillion, 1976

**Sarah Ball MSN, RN**, *Instructor of Nursing* (2014).

**Sara Banzhaf MSN, RN**, *Instructor of Nursing* (2013).

**Andrew Baruth**, *Assistant Professor of Physics* (2012).

B.S., Doane College, 2003; Ph.D., University of Nebraska at Lincoln, 2009

**Timothy Bastian**, *Instructor of Economics* (2007).

A.S., SUNY, Jamestown, 1983; B.S., Penn State University, 1985; M.S., Western New England College, 1988; M.A., The Maxwell School of Syracuse University, 1990

**Robert Belknap**, *Professor Emeritus of Biology* (1960; 2000).

B.S., Creighton University, 1949; M.S., 1951; Ph.D., University of California at Berkeley, 1958

**Roger Bergman**, *Associate Professor of Sociology, Anthropology, and Social Work* (1989; 2010); *Director, Justice and Peace Studies Program*.

B.A., Kansas State University, 1970; M.A., University of Arizona, 1977; M.T.S., Weston School of Theology, 1991; Ph.D., University of Nebraska at Lincoln, 2005

**Marty Birkholt**, *Associate Professor of Communication Studies* (1998; 2007).

B.S., South Dakota State University, 1983; M.A., 1986; Ph.D., Arizona State University, 2003

**Karen Boardman MS, RN**, *Assistant Professor of Nursing* (2002).

B.S.N., University of Nebraska, 1969; M.S., University of Colorado, 1972

**Dulcinea Boesenberg**, *Assistant Professor of Theology* (2014).

B.A., Hanover College, 2002; M.T.S., University of Notre Dame, 2007; Ph.D., University of Notre Dame, 2014

**Robert Bosco**, *Associate Professor of Fine and Performing Arts* (1976; 1989).

B.A., St. John's University (Minnesota), 1965; M.A., University of Iowa, 1967; M.F.A., 1969

**Charles B. Braymen**, *Assistant Professor of Economics* (2011).

B.A., University of Nebraska, Lincoln, 1999; Ph.D., University of North Carolina, 2007

**Nancy Bredenkamp PhD, APRN**, *Assistant Professor of Nursing* (2004; 2007).

B.S.N., Creighton University, 1992; M.S., Creighton University, 2003

**Ashley Barron Breland**, *Associate Professor of Fine and Performing Arts* (2008; 2014).

B.M., University of Georgia, 2001; M.M., Indiana University, 2003

**Kristie N. Briggs**, *Assistant Professor of Economics* (2008; 2014).

B.A., American University, 2002; Ph.D., University of North Carolina, Chapel Hill, 2008

**Charles Brockhouse**, *Associate Professor of Biology* (2006; 2013).

B.Sc., University of Toronto, 1982; M.Sc., 1984; Ph.D., 1991

**Jill Brown**, *Associate Professor of Psychology* (2007; 2013).

B.A., University of Nebraska at Lincoln, 1995; M.A., 2004; Ph.D., 2007

**Michael A. Brown**, *Assistant Professor of Philosophy* (1987).

B.A., Carroll College (Montana), 1979; M.A., University of Notre Dame, 1981; Ph.D., Emory University, 1987

**Sherri Brown**, *Assistant Professor of Theology* (2014).

B.A., Washington & Lee University, 1991; M.Div., Yale University Divinity School, 1996; M.S.W., Columbia University School of Social Work, 1997; Ph.D., Catholic University of America, 2008

**Gregory S. Bucher**, *Associate Professor of Classical and Near Eastern Studies* (2001; 2005).

B.A., University of California at San Diego, 1987; Ph.D., Brown University, 1997

**Raymond Bucko S.J.**, *Professor Emeritus, Chair of Sociology, Anthropology, and Social Work* (2000; 2013).

B.A., Fordham University, 1978; M.Div., Jesuit School of Theology at Berkley, 1983; S.T.M., Regis College, 1984; Ph.D., University of Chicago, 1992

**Thomas L. Budesheim II**, *Associate Professor of Psychology* (1993; 1999).

B.A., Grinnell College, 1984; M.A., University of Illinois, 1988; Ph.D., 1992

**Theodore E. Burk**, *Professor of Biology* (1982; 1996).

B.A., University of Kansas, 1974; D.Phil, University of Oxford (U.K.), 1979

**Eileen C. Burke-Sullivan**, *Associate Professor of Theology* (2003; 2010); *Holder of the Barbara Reardon Heaney Chair in Pastoral Liturgical Theology*.

B.A., St. Mary College, 1971; M.M., University of Colorado, 1975; M.A., Creighton University, 1983; S.T.L., Weston Jesuit School of Theology, 1997; S.T.D., 2003

**Olaf E. Böhlke**, *Assistant Professor of Modern Languages and Literatures* (1998).

B.A., University of Tübingen, 1987; M.A., Arizona State University, 1991; Ph.D., Michigan State University, 2000

**Susan Calef**, *Assistant Professor of Theology* (1995); *Director, Women's and Gender Studies Program*.

B.A., Marymount College (Tarrytown, NY), 1977; M.A., Catholic Theological Union (Chicago), 1988; M.A., University of Notre Dame, 1993; Ph.D., 1996

**John C. Calvert**, *Professor of History* (1994; 2014).

B.A., University of Alberta (Canada), 1979; M.A., University of Toronto, 1981; M.A., McGill University (Canada), 1984; Ph.D., 1993; DIP, American University in Cairo, 1988

**James W. Carlson**, *Associate Professor of Mathematics* (1985; 1991).

B.S., Southwestern College, 1977; M.S., Pittsburgh State University, 1979; Ph.D., Purdue University, 1985

**James Carney**, *Assistant Professor of Theology* (2011).

B.A., University of Arkansas, 1999; M.Div, Duke University, 2005; Ph.D., Catholic University of America, 2011

**Catherine A. Carrico DNP, APRN-NP**, *Assistant Professor of Nursing* (2012).

B.S.N., University of Nebraska Medical Center, 1994; M.S.N., 1996; D.N.P., Creighton University, 2012

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B.A., George Washington University, 1971; A.D., Shenandoah University, 1987; M.A., University of Virginia, 1994; Ph.D., University of Virginia, 2007

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B.S., National Cheng-Chi University (Taiwan), 1970; M.S., Utah State University, 1974; M.S., Florida State University, 1976; Ph.D., 1978

**Michael G. Cherney**, *Professor of Physics* (1989; 2011).

B.S., Marquette University, 1979; M.S., University of Wisconsin at Madison, 1980; Ph.D., 1987

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License, National University of Zaire, Lubumbashi, 1976; M.A., State University of New York at Albany, 1982; Ph.D., State University of New York at Buffalo, 1986

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B.S., Korea Advanced Institute of Science and Technology, 1994; M.S., 1996; Ph.D., University of Michigan, 2003

**Robert J. Churchill**, *Assistant Professor of English* (1980).

B.A., Creighton University, 1966; M.A., 1970; Ph.D., University of Nebraska at Lincoln, 1979

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B.S., United States Military Academy, 1973; A.M., University of Illinois at Urbana-Champaign, 1988; Ph.D., 1992

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B.A., University of Akron, 2001; M.A., Baylor University, 2005; Ph.D., 2008

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B.S.N., University of Nebraska Medical Center, 1979; M.S.N., 1981; M.S., University of Nebraska, Lincoln, 1991; Ph.D., 1996

**Amy Cosimano EdD, RN**, *Assistant Professor of Nursing* (2005; 2010); *Assistant Dean, College of Nursing*.

B.S., University of Nebraska Medical Center, 1987; B.S.N., Creighton University, 1995; M.S.N., University of Nebraska Medical Center, 2005; Ed.D., College of St. Mary, 2010

**Cindy Costanzo PhD, RN**, *Associate Professor of Nursing* (2005; 2009); *Chairman of Nursing Systems Administration and CNL; Program Chair, MSN; Interim Dean, College of Nursing*.

B.S.N., UNMC College of Nursing, 1983; M.S.N., UNMC College of Nursing, 1993; Ph.D., University of Nebraska Medical Center, 2005

**Sue S. Crawford**, *Professor of Political Science* (1995; 2009).

B.S., Northeast Missouri State University, 1989; Ph.D., Indiana University at Bloomington, 1995

**Randall L. Crist**, *Associate Professor of Mathematics* (1993; 2006); *Chair, Department of Mathematics*.

B.S., University of Nebraska at Lincoln, 1982; M.A., University of Pennsylvania, 1987; Ph.D., Texas A&M University, 1993

**Alistair Cullum**, *Associate Professor of Biology* (2000; 2008).

B.A., University of California at Santa Barbara, 1986; Ph.D., University of California at Irvine, 1997

**William Cunningham Jr.**, *Professor Emeritus of English* (; 1994); *Dean Emeritus, College of Arts and Sciences*.

B.A., Holy Cross College, 1954; M.A., Boston College, 1956; Ph.D., University of Pittsburgh, 1961

**Mary Ann Danielson**, *Professor of Communication Studies* (1989; 2008).

BS.B.A., University of Nebraska at Omaha, 1985; M.A., 1989; Ph.D., University of Nebraska at Lincoln, 1997

**Todd C. Darnold**, *Assistant Professor of Management* (2008; 2014).

B.S., Iowa State University, 2000; Ph.D., University of Iowa, 2008

**Rebecca Davis DNP, APHN-BC**, *Assistant Professor of Nursing* (2014).

**Charles Timothy Dickel**, *Professor of Education* (1976; 2009); *Professor of Psychiatry*.

B.A., Whitman College, 1968; M.S., Indiana University at Bloomington, 1971; Ed.D., 1973;  
Graduate Certificate of Gerontology, University of Nebraska at Omaha, 1984

**Barbara J. Dilly**, *Associate Professor of Sociology, Anthropology, and Social Work* (2000; 2007).

B.A., University of California at Los Angeles, 1988; M.A., University of California at Irvine, 1989;  
Ph.D., 1994

**David Dobberpuhl**, *Associate Professor of Chemistry* (1994; 2000); *Chair, Department of Chemistry*.

B.S., Moorhead State University, 1989; Ph.D., Iowa State University, 1994

**Donald Doll S.J.**, *Professor Emeritus of Journalism, Media and Computing* (1961; 2014); *Holder of the Charles and Mary Heider Endowed Jesuit Faculty Chair*.

B.A., St. Louis University, 1961; M.Ed., 1962; Ph.L., 1962

**Robert Dornsife**, *Associate Professor of English* (1992; 1997).

B.A., Shippensburg University, 1986; M.A., Pennsylvania State University, 1988; Ph.D., Lehigh University, 1992

**Arthur V. Douglas**, *Professor Emeritus of Atmospheric Sciences* (1982; 2007).

B.S., University of California at Riverside, 1971; M.S., University of Arizona, 1973; Ph.D., 1976

**Beverly A. Doyle**, *Associate Professor of Education* (1977; 1983).

B.S., Iowa State University, 1967; M.D., University of Nebraska at Omaha, 1971; Ph.D.,  
University of Nebraska at Lincoln, 1977

**William M. Duckworth**, *Associate Professor of Decision Sciences* (2006; 2009).

B.S., Miami University, 1991; M.S., Miami University, 1993; M.S., University of North Carolina  
at Chapel Hill, 1996; Ph.D., 1998

**Gintaras K. Duda**, *Associate Professor of Physics* (2003; 2009).

B.S., Villanova University, 1997; M.S., University of California at Los Angeles, 1998; Ph.D.,  
2003

**Eileen Dugan**, *Associate Professor of History* (1988; 1994).

B.A., Texas Tech University, 1979; M.A., Ohio State University, 1981; Ph.D., 1987

**Lee M. Dunham**, *Assistant Professor of Finance* (2008; 2014).

B.S., University of Missouri at St. Louis, 1999; M.B.A., 2002; M.S., University of New Orleans,  
2005; Ph.D., University of Nebraska, 2008

**W. Patrick Durow**, *Assistant Professor Emeritus of Education* (2001; 2014).

B.A., St. Mary's College, 1968; M.A., University of Wyoming, 1974; Ph.D., University of  
California at Irvine, 2002

**Scott Eastman**, *Associate Professor of History* (2006; 2012).

B.A., DePaul University, 1998; M.A., Tufts University, 2001; Ph.D., University of California at  
Irvine, 2002

**Joan Eckerson**, *Professor of Exercise Science* (1995; 2007).

B.S., Kearney State College, 1987; M.A., California State University at Fresno, 1989; Ph.D., University of Nebraska at Lincoln, 1993

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**Nelson C. Fong**, *Associate Professor of Mathematics* (; 1984).

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B.A., University of Sierra Leone, 2001; M.A., Rutgers University, 2005; Ph.D., University of California, Davis, 2011

**Maorong Jiang**, *Associate Professor of Political Science* (2006; 2013); *Associate Professor* (2013); *Director, Asian World Center* (2013).

B.A., College of International Relations (China); M.A., University of Hawaii, 1994; Ph.D., 2006

**Bryan Johnson**, *Assistant Professor of Marketing* (2010).

B.S., Brigham Young University, 2003; M.S., 2004; Ph.D., Pennsylvania State University, 2010

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**Francis M. Klein**, *Associate Professor Emeritus of Chemistry* (1968; 1973).

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**Alan Klem**, *Associate Professor of Fine and Performing Arts* (1985; 2005).

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**James J. Knudsen**, *Assistant Professor of Economics* (1989; 2004).

B.S., Iowa State University, 1981; B.A., 1984; Ph.D., 1989

**Brian Kokensparger**, *Assistant Professor of Journalism, Media and Computing* (1988; 2013).

B.A., Creighton University, 1991; M.H.S.A., Creighton University, 1997; Ph.D., University of Nebraska, Lincoln, 2013

**Beverly J. Kracher**, *Professor of Business Ethics and Society* (1990; 2010); *Chief Executive Officer, Executive Director, Business Ethics Alliance* (2006).

B.A., University of Nebraska, 1974; M.A., 1984; Ph.D., 1991

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B.S., Union College, 1967; M.B.A., University of Nebraska, Lincoln, 1971; Ph.D., 1975; C.P.A., Texas, 1976

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**Patrick Lambert**, *Associate Professor of Exercise Science* (2008; 2008).

B.S., Alma College, 1998; M.A., Ball State University, 1990; Ph.D., University of Iowa, 2001

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B.S., National University (Ireland), 1955; Diploma in Education, 1957; B.D., Pontifical Gregorian University (Rome), 1961; S.T.L., 1963; Diploma, International Catechetical Centre (Belgium), 1968; Ph.D., Aquinas Institute of Theology, 1975

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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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B.A., University of Colorado, Boulder, 1987; M.S., Boston College, 1988; CFA

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B.S., Cardinal Stritch College, 1991; M.A., Marquette University, 1995; Ph.D., 2000

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B.A., Delhi University, 1978; M.A., 1980; M.S., Ohio University, 1985; Ph.D., Ohio University, 1985

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B.A., St. Francis College (Wisconsin), 1956; S.T., Pontifical Antonian Atheneum (Rome), 1964, 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

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B.S.N., Creighton University, 1998; M.S., 2005

**Robert P. Marble**, *Associate Professor of Decision Sciences* (1983; 1988).

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Texas Technological College, 1967; M.S., 1970; Ph.D., Arizona State University, 1974

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B.S., Creighton University, 1976; M.S., University of Nebraska, Omaha, 1981; M.S., Creighton University, 1989; Ed.D., University of Nebraska, Lincoln, 1994

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- Patrick Roddy**, *Instructor of Fine and Performing Arts*.
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- Alexander Roedlach**, *Associate Professor of Sociology, Anthropology, and Social Work* (2007; 2012); *Director, Masters in Medical Anthropology*.  
M.A., Pontifica Universita Urbana (Rome), 1990; M.A., Philosophisch-Theologische Hochschule, Modling (Austria), 1990; M.A., Catholic University, 2000; Ph.D., University of Florida, 2005
- Gloria Romero-Downing**, *Associate Professor Emeritus of Modern Languages and Literatures* (1991; 2006).  
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B.A., Evangel College, 1982; M.A., S., Gordon-Conwell Theological Seminary, 1984, 1984; Ph.D., Harvard University, 1990

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B.A., Bellarmine College, 1963; M.S., Kansas State University, 1966; Ph.D., United States International University, 1972; Ph.D., Radboud University Nijmegen (Netherlands), 1994

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**James S. Wunsch**, *Professor of Political Science* (1973; 1986).

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**Jinmei Yuan**, *Professor of Philosophy* (2001; 2013).

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B.A., New York University, 1981; M.A., 1983; Ph.D., 1988

**Donald M. Zebolsky**, *Associate Professor Emeritus of Chemistry* (1962; 2001).

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**Thomas H. Zepf**, *Professor Emeritus of Physics* (1962; 2002).

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